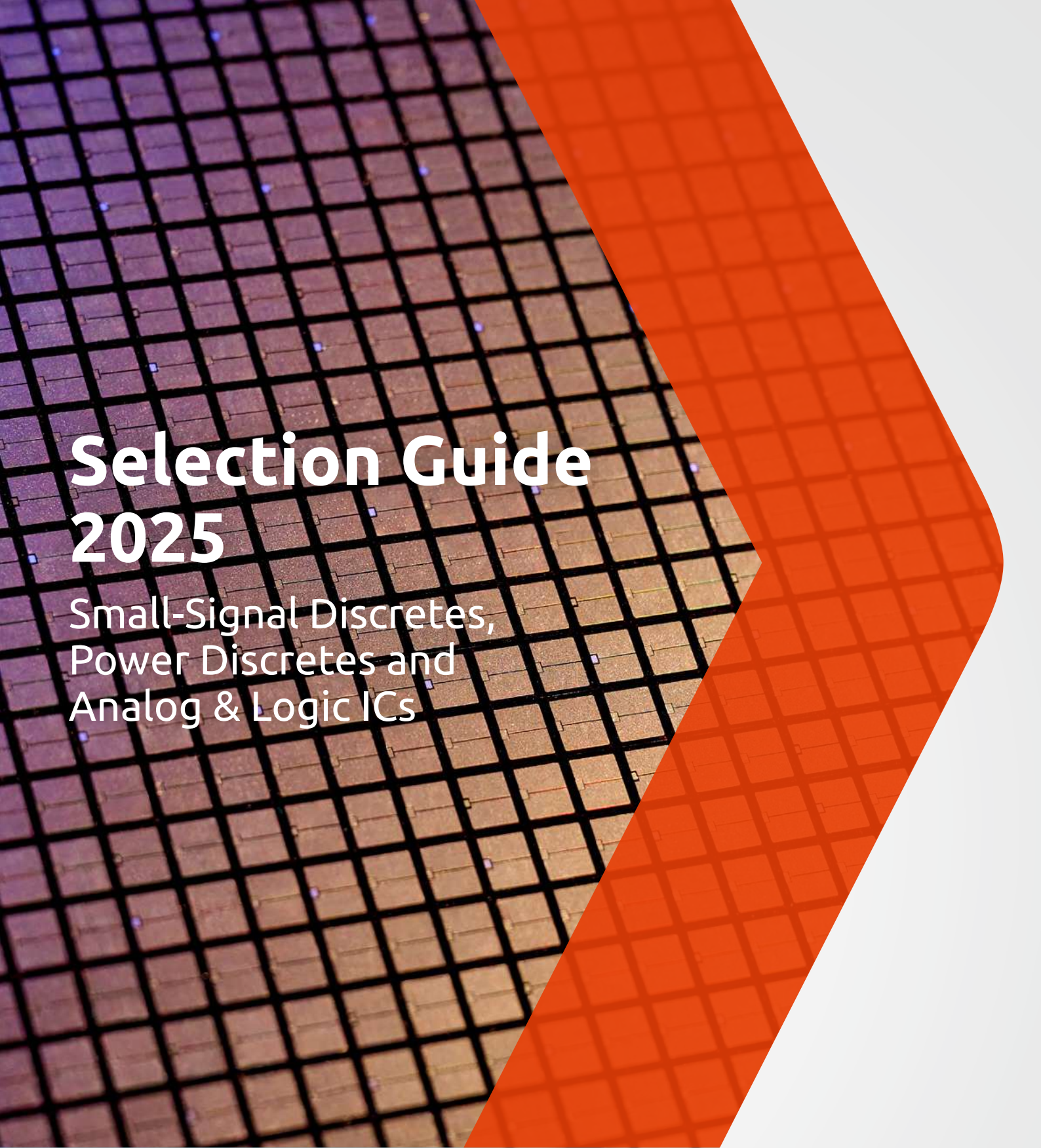




Selection Guide 2025

Small-Signal Discretes,
Power Discretes and
Analog & Logic ICs

MORE EXPERTISE



Bipolar transistors



Diodes



ESD protection,
TVS, signal
conditioning



MOSFETs



SiC MOSFETs



GaN FETs



IGBTs

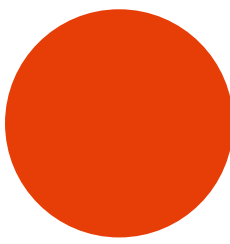


Analog & logic ICs

Every piece of electronics in the world can benefit from Nexperia efficiency. That's every design, from the simplest phone charger or light switch to the most complex hybrid automobile. Efficiency means we produce the world's most essential semiconductors, the finishing touches that empower electronic designs everywhere. That's all we do, **more or less.**



LESS COMPLEXITY



Introduction

Welcome to the 2025 edition of the Nexperia Selection Guide. Here we present all our Small-Signal Discretes, Power Discretes and Analog & Logic ICs in one single document to give you a complete overview. We aim to make it even easier for you to find the best product for your design.

Our extensive portfolio offers a wide range of general purpose devices and those that meet the stringent standards set by the automotive industry. They are housed in some of the most advanced, industry-leading small packages that combine power and thermal efficiency with best-in-class quality levels.

Alongside quality and efficiency, Nexperia customers value reliability and a consistent supply they can trust. We produce consistently reliable semiconductor components at high volume (Over 100 billion annually) and we work at every step to safeguard the long-term availability of our manufacturing processes and products, to ensure secure supply for all our customers.

We have a long history and broad experience. That ensures we can support you with the dedicated in-house technical support you need - from simplifying selection via quick-reference material to simple-to-use design tools and application insights. All to help drive up efficiency in your designs.

All the functionality you need in one spot

Just like on our website, you will find the Selection Guide is split into our six key product areas. There is also a dedicated section on packages, highlighting the latest package innovations and packing options.

Bipolar transistors

- › Resistor-equipped, low V_{CEsat} and small-signal transistors
- › Standard SMD, leadless and clip-bond packages

Diodes

- › Broad choice of Zener, Schottky and switching diodes
- › Ultra-small, low-profile surface-mount package options
- › SiC Schottky diodes in surface-mount and through hole package options

ESD protection, filtering and signal conditioning

- › Extensive range of protection in ultra-small form factors
- › Optimized for signal integrity, robustness and system protection

MOSFETs

- › Low $R_{DS(on)}$ devices from < 20 V to > 200 V
- › Industry-leading, high-quality, highly robust, copper-clip SMD packaging, LFPACK

SiC MOSFETs

- › High-performance 1200 V SiC MOSFETs for superior efficiency
- › Optimized for high-speed switching and reduced losses
- › Available in well-established 3-pin & 4-pin TO-247 package, 7-pin TO-263 package & top side cooling X.PAK package
- › Robust and reliable performance in demanding power applications

Power GaN FETs

- › Efficient and effective power FETs from 100 - 650 V
- › Cascode and e-mode configurations
- › Industry-standard TO-247, DFN, WLCSP and LGA packages
- › High-quality, highly robust copper-clip surface mount package technology, CCPACK

IGBTs

- › 650V portfolio for industrial applications
- › High power density & high ruggedness reliability
- › Industry-standard packaging (TO-247)
- › Low conduction & switching losses

Analog & logic ICs

- › Comprehensive portfolio of Logic, Translator and Analog switch functions
- › Expanding portfolio of I²C GPIO, Battery Booster and Energy Harvesting products
- › Unrivalled package innovation for various pin counts with low power solutions

Packages

- › The next generation of packaging for volume production
- › Package cross-reference and packing options

As an innovative company we are continually adding to our product portfolio, so to discover all our latest product information you should visit our website – www.nexperia.com

Our commitment:

quality and reliability



AEC-Q100/Q101 qualified

We qualify our products according to the automotive AEC-Q100/Q101 standard and even exceed its requirements, for instance when doing extended lifetime testing.



Go for quality

All our processes and manufacturing plants are subject to regular international and internal audits, including the following:

- › ISO9001
- › IATF 16949 for automotive sites
- › ISO14001
- › OHSAS18001



Design for excellence

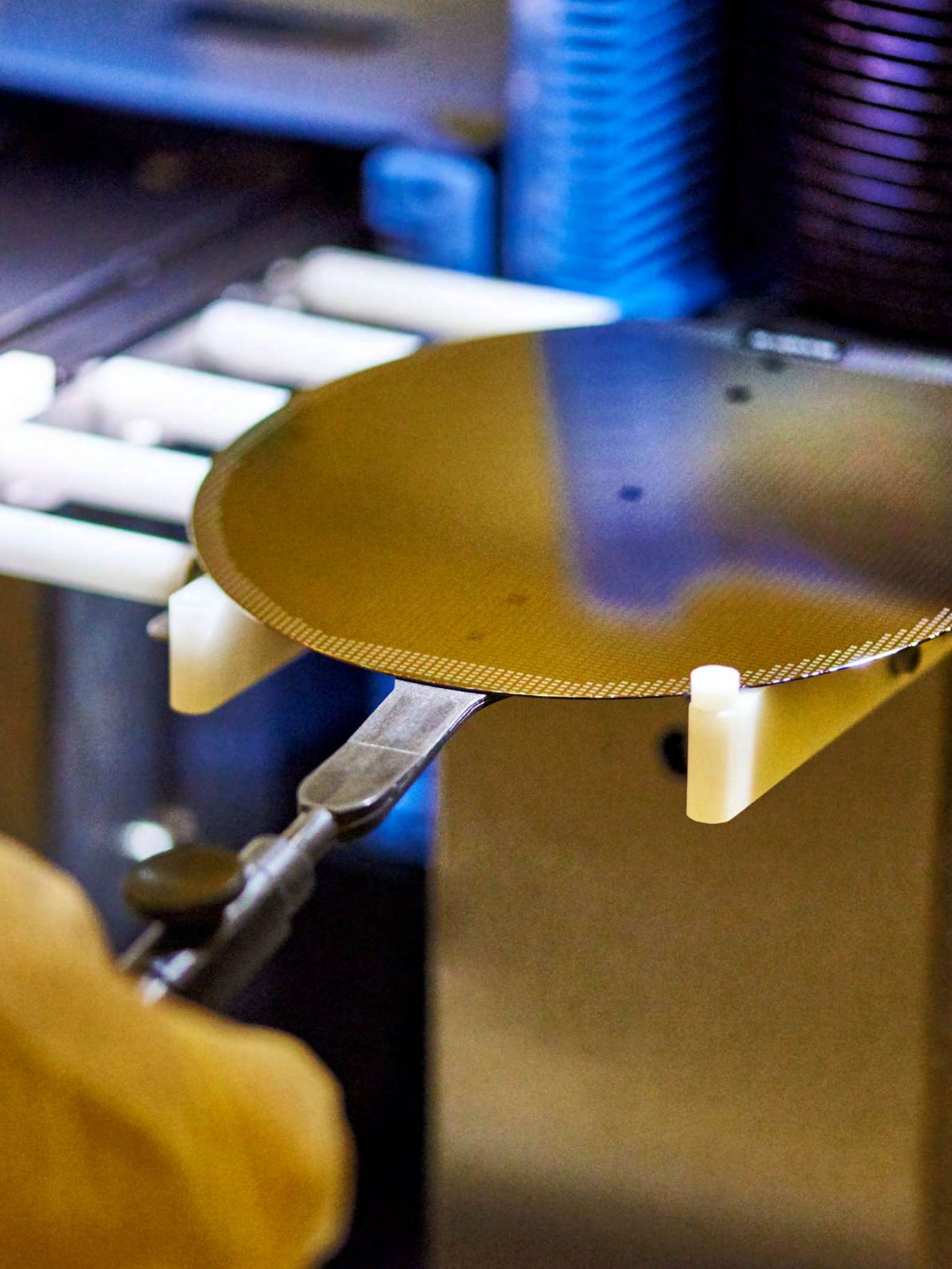
Nexperia's Design for Excellence (DfX) program ensures that each new development builds on past learning and that best practices are always employed. The result is continual product improvement.



Zero defects

Zero defects is our standard through the organisation. A rigorous 8-discipline approach and thorough 5-why analysis ensure strong improvements are constantly made to our products and processes.

Rigorous attention to detail and commitment to quality have yielded a very low product failure rate of a single-digit part per billion (ppb).



Selection Guide 2025

Small-Signal Discretes, Power
Discretes and Analog & Logic ICs

Bipolar transistors

1

Diodes

2

ESD protection,
TVS, filtering
and signal
conditioning

3

MOSFETs

4

Silicon carbide
MOSFETs

5

Power GaN FETs

6

IGBTs

7

Analog & Logic ICs

8

Packages

9

Contents

New products	10	General purpose, high speed switching diodes 100 V (Leaded SMD)	56
Bipolar transistors.....	10	General purpose, high speed switching diodes 100 V (Leadless DFN).....	56
Diodes	11	General purpose, switching diodes ≥ 100 V.....	57
ESD protection, TVS, filtering and signal conditioning.....	12	High performance switching diodes (175 °C capable & superior power dissipation) .	58
MOSFETs.....	15	Controlled avalanche switching diodes.....	58
Power GaN FETs	17	Low leakage current switching diodes	58
Bipolar Discretes Q-portfolio	18	Recovery rectifiers	59
Bipolar transistors	21	Recovery rectifiers	59
General purpose bipolar transistors	22	Nomenclature recovery rectifiers automotive grade types.....	60
Small signal transistors single NPN	22	SiC Schottky diodes	61
Small signal transistors single PNP.....	23	SiC Schottky diodes	61
High performance transistors (superior power dissipation)	24	Schottky diodes and rectifiers	62
Small signal transistors double	24	General purpose Schottky diodes ≤ 250 mA	62
Small signal switching transistors single	25	Low capacitance Schottky diodes	63
Small signal switching transistors double	25	Schottky rectifiers - leadless DSN/DFN packages.....	64
175 °C capable products	26	Power Schottky rectifiers - clip-bond packages	66
Power transistors	26	Schottky rectifiers - leaded packages.....	68
General purpose power transistors	27	Dual Schottky rectifiers - leaded/leadless DFN packages.....	69
General purpose high voltage transistors	27	Nomenclatures	70
PNP LED driver.....	28	ESD protection, TVS, filtering and signal conditioning 73	
NPN LED driver.....	28	Automotive ESD protection and TVS	74
Constant current source.....	28	Classic In-Vehicle Networks	74
Darlington transistors.....	29	Automotive Ethernet	75
Schmitt-triggers.....	29	Infotainment/SerDes	76
Low noise transistors	29	TVS diodes, 24 W/40 W	77
Matched pair transistors - part 1	30	New MMBZ TVS diodes, lightning pulse	78
Matched pair transistors - part 2	30	ESD protection	80
MOSFET driver.....	31	Low capacitance ESD protection for high-speed interfaces	80
Medium frequency transistors.....	31	General purpose ESD protection devices	83
Low V_{CEsat} transistors	32	EMI solutions with integrated protection	87
Low V_{CEsat} transistors single NPN up to 2000 mW	32	Common mode filters with integrated protection	87
Low V_{CEsat} transistors single NPN up to 750 mW	33	Transient Voltage Surge Suppressor (TVS)	88
Low V_{CEsat} transistors single PNP up to 2000 mW.....	34	TVS diodes for mobile applications.....	88
Low V_{CEsat} transistors single PNP up to 750 mW.....	35	TVS diodes, 24 W/40 W	89
Low V_{CEsat} transistors double.....	36	TVS 400 W	90
Low V_{CEsat} transistors load switches.....	37	TVS 600 W	91
Low V_{CEsat} high voltage transistors.....	38	TVS 600 W	92
Low V_{CEsat} transistors PNP - N-channel MOSFET combination.....	38	Nomenclatures	94
Low V_{CEsat} power transistors single (175 °C capable).....	39	Automotive ESD protection nomenclature	94
Low V_{CEsat} power transistors double (175 °C capable).....	39	ESD protection devices nomenclature	94
Resistor equipped transistors (RETs)	40	Multi-line ESD protection nomenclature	95
50 V/100 mA single NPN RETs	40	Common mode filters nomenclature	95
50 V/100 mA single PNP RETs	41	TVS protection nomenclature	95
50 V/100 mA double RETs	42	MMBZ series nomenclature	95
80 V/100 mA single/double RETs.....	42	MOSFETs	97
50 V/500 mA single RETs.....	43	Automotive MOSFETs	98
50 V/500 mA double RETs.....	43	Automotive grade leaded & application specific MOSFETs (ASFETs) nomenclature ..	98
40V/600 mA Performance-based single RETs	43	Automotive grade micro-lead MOSFETs nomenclature	98
3-terminal adjustable shunt regulators	44	N-channel 30 V automotive power MOSFETs.....	98
Nomenclatures	45	N-channel 40 V automotive power MOSFETs.....	99
Diodes	49	N-channel 55 V - 60 V automotive power MOSFETs.....	101
Zener diodes	50	N-channel 75 V - 80 V automotive power MOSFETs.....	103
General purpose Zener diodes Part 1	50	N-channel 100 V automotive power MOSFETs	104
General purpose Zener diodes Part 2	51	P-channel 30 V - 60 V automotive power MOSFETs.....	105
A-Selection Zener Diodes (1% V_z tolerance)	51	Small-signal automotive MOSFETs – Low $R_{DS(on)}$	106
Low leakage (low I_z) Zener diodes	52	Small-signal automotive MOSFETs – High $R_{DS(on)}$	108
Low differential resistance (low R_z) Zener diodes	52	Small-signal automotive MOSFETs – Dual	108
50 μ A Zener diodes (V_z @ 50 μ A).....	53	Small-signal MOSFETs - Complementary	108
High non-repetitive peak reverse power dissipation (P_{ZSM}) Zener.....	53	Power MOSFETs	110
High power voltage regulator Zener diodes (high P_{tot})	53	N-channel 25 V - 30 V power MOSFETs.....	110
Zener diodes specifications	54	N-channel 40 V - 60 V power MOSFETs.....	112
Switching diodes	55	N-channel 75 V - 200 V power MOSFETs	114
General purpose, high speed switching diodes ≤ 90 V.....	55		

Premium & application specific MOSFETs nomenclature.....	116	Logic	164	Bipolar transistors
Standard MOSFETs nomenclature	117	Buffers / Inverters	164	
P-channel power MOSFETs.....	117	Transceivers.....	171	
Small-signal MOSFETs.....	118	AND gates	173	Diodes
Small-signal MOSFETs in DFN0603, DFN0606, DFN1006 packages	118	NAND gates.....	174	
Small-signal MOSFETs in DFN1010D-3 single and DFN1010B-3 dual packages....	119	OR gates	175	
Small-signal MOSFETs in DFN2020MD-6 single and DFN2020-6 dual packages....	120	NOR gates	176	
Small-signal MOSFETs in DSN and WLCSP packages.....	121	EXCLUSIVE-OR gates.....	177	
Small-signal MOSFETs single (N-channel)	122	EXCLUSIVE-NOR gates	177	
Small-signal MOSFETs single (P-channel)	124	Combination gates.....	178	
Small-signal MOSFETs dual.....	126	Configurable gates.....	178	
Small-signal MOSFETs complementary	126	Schmitt-triggers	179	
Small-signal MOSFETs nomenclature	128	Flip-flops	182	ESD protection, TVs, filtering and signal conditioning
Silicon carbide MOSFETs	131	Latches / Registered drivers	184	
Silicon carbide MOSFETs	132	Shift registers	185	
Silicon carbide MOSFETs	132	Counters / Frequency dividers	186	
SiC MOSFET nomenclature.....	133	Decoders and Demultiplexers	187	
Power GaN FETs	135	Digital multiplexers	188	
Power GaN FETs	136	Speciality logic.....	189	
Power GaN FETs naming conventions	136	Specialty logic - Multivibrators	189	
Low voltage e-mode GaN FETs.....	137	Voltage translators (level-shifters)	190	
650 - 700 V e-mode GaN FETs	137	Uni-directional.....	190	
Bi-directional e-mode GaN FETs	137	Direction controlled.....	191	
650 V cascode GaN FETs	137	Auto direction (Autosense)	192	
IGBTs	139	Application specific.....	192	
IGBTs.....	140	Analog Switches and Multiplexers	193	
650 V IGBTs.....	140	Analog switches	193	
Analog & Logic ICs	143	Bus switches	194	
Automotive Analog & Logic	144	Multiplexer / Demultiplexer.....	194	
Q100 Functions and Standard Packages (>10 pins).....	144	Interface	195	
Logic - Buffer / Inverters	144	I ² C General Purpose I/O (GPIO)	195	
Logic - Transceivers.....	145	Isolation.....	196	
Logic - Gates	146	Transformer drivers	196	
Logic - Schmitt-trigger IC's	147	Power IC's.....	197	
Logic - Flip-flops.....	147	IC's - Battery booster.....	197	
Logic - Latches / Registered drivers.....	148	Power management IC's - Energy harvesting.....	197	
Logic - Shift Registers.....	149	LCD bias	197	
Logic - Counter / Frequency dividers.....	150	Automotive LED Driver.....	197	
Logic - Decoders / Demultiplexers.....	151	Load Switch.....	198	
Logic - Digital multiplexers.....	151	eFuses.....	199	
Logic - Specialty logic	152	Ideal Diodes.....	199	
Voltage translators (Level-shifters)	152	Low Iq buck converter	200	
Voltage translators (Level-shifters)	153	Wide Vin buck converter	200	
Analog switches and multiplexers - Analog switches	153	Half bridge gate driver	200	
Analog switches and multiplexers - Bus switches.....	154	PWM controller.....	201	
Analog switches and multiplexers - Multiplexers / Demultiplexers.....	154	SR controller.....	201	
Interface - I ² C general purpose I/O (GPIO)	154	Automotive low Iq LDO	201	
Q100 Functions and Mini-Logic Packages (≤10 pins)	155	Automotive 40V tracking LDO	202	
Logic - Buffers / Inverters	155	USB PD Controller	202	
Logic - Gates	157	Nomenclatures	203	
Logic - Schmitt-trigger IC's	159	Translator IC's nomenclature	203	
Logic - Latches / Registered drivers.....	160	Packages	205	
Logic - Counter / Frequency dividers.....	160	Package details and packing methods.....	206	
Logic - Decoders / Demultiplexers.....	161	Package details and packing methods SMD	206	
Logic - Digital multiplexers.....	161	WLCSP package details.....	210	
Logic - Specialty logic	161	Packing details glass diodes, single ended and through hole packages	211	
Voltage translator (Level-shifters)	162	Package cross reference	212	
Analog switches and multiplexers - Analog switches	163	Package cross reference list.....	212	
Analog switches and multiplexers - Bus switches.....	163	Package cross reference matrix.....	218	
		Competitive cross reference - Logic.....	220	
		Competitive cross reference - Analog & logic ICs	220	
		Packing methods	222	
		Product orientation (tape and reel pack)	222	
		Index.....	224	

New products

As an innovative company we invest significantly in R&D, and continually expand our portfolio with the latest generation of technology and products. Here is a snapshot of our most recent releases, but don't forget to visit the website for the most up-to-date information - www.nexperia.com

Bipolar transistors

Category	Products	Description	Page
General purpose bipolar transistors	PMBT2227AYS-Q	40 V, 600 mA, NPN/PNP double switching transistor	25
	BCM847BSH-Q	45 V, 100 mA NPN/NPN matched double transistor	26
	BC846SH-Q	65 V, 100 mA NPN/NPN general-purpose double transistor	26
	BC847BSH-Q	45 V, 100 mA NPN/NPN general-purpose double transistor	26
	BC846BSH-Q	65 V, 100 mA NPN/NPN general-purpose double transistor	26
	BCM846BSH-Q	65 V, 100 mA NPN/NPN matched double transistor	26
	BCM857BSH-Q	45 V, 100 mA PNP/PNP matched double transistor	26
	BC856SH-Q	65 V, 100 mA PNP/PNP general-purpose double transistor	26
	BC857BSH-Q	45 V, 100 mA PNP/PNP general-purpose double transistor	26
	BC856BSH-Q	65 V, 100 mA PNP/PNP general-purpose double transistor	26
	BCM856BSH-Q	65 V, 100 mA PNP/PNP matched double transistor	26
	BC847BPNH-Q	45 V, 100 mA NPN/PNP general-purpose double transistor	26
	BC846BPNH-Q	65 V, 100 mA NPN/PNP general-purpose double transistor	26
	PUMD6H-Q	50 V, 100 mA NPN/PNP Resistor-Equipped double Transistor; R1 = 4.7 kΩ, R2 = open	26
	PUMH7H-Q	50 V, 100 mA NPN/NPN Resistor-Equipped double Transistor; R1 = 4.7 kΩ, R2 = open	26
	PUMB3H-Q	50 V, 100 mA PNP/PNP Resistor-Equipped double Transistor; R1 = 4.7 kΩ, R2 = open	26
	BC56PAST(-Q)	80 V, 1 A NPN medium power transistors	26
	BC56-10PAST(-Q)	80 V, 1 A NPN medium power transistors	26
	BC56-16PAST(-Q)	80 V, 1 A NPN medium power transistors	26
	BC53PAST(-Q)	80 V, 1 A PNP medium power transistors	26
	BC53-10PAST(-Q)	80 V, 1 A PNP medium power transistors	26
	BC53-16PAST(-Q)	80 V, 1 A PNP medium power transistors	26
	MJPE2873(-Q)		27
	MJPE44H11		27
	MJPE44H11-Q		27
	MJPE45H11		27
	MJPE45H11-Q		27
	MJPE31C		27
	MJPE31C-Q		27
	MJPE31CH(-Q)*		27
	MJPE32C		27
	MJPE32C-Q		27
Low V_{CEsat} transistors	PMP3906AYS-Q	40 V, 200 mA PNP/PNP matched double transistor	30
	PB554350PAS(-Q)	50 V, 3 A NPN low V_{CEsat} transistor	32
	PB555250PAS(-Q)	50 V, 2 A PNP low V_{CEsat} transistor	34
	PB555350PAS(-Q)	50 V, 3 A PNP low V_{CEsat} transistor	34
Resistor equipped transistors (RETs)	PDTC123YQB(-Q)	50 V, 100 mA, NPN RET; R1 = 2.2 kΩ, R2 = 10 kΩ in a small DFN1110D-3 (SOT8015)	40
	PDTA123YQB(-Q)	50 V, 100 mA, PNP RET; R1 = 2.2 kΩ, R2 = 10 kΩ in a small DFN1110D-3 (SOT8015)	41
	PIMN31PAS-Q	50 V, 500 mA, NPN/NPN double RET; R1 = 1 kΩ, R2 = 10 kΩ in a small DFN2020D-6 (SOT1118D)	43
	PIMC31PAS-Q	50 V, 500 mA, NPN/PNP double RET; R1 = 1 kΩ, R2 = 10 kΩ in a small DFN2020D-6 (SOT1118D)	43
	PIMP31PAS-Q	50 V, 500 mA, PNP/PNP double RET; R1 = 1 kΩ, R2 = 10 kΩ in a small DFN2020D-6 (SOT1118D)	43
	PIMN31PA	50 V, 500 mA, NPN/NPN double RET; R1 = 1 kΩ, R2 = 10 kΩ in a small DFN2020-6 (SOT1118)	43
	PIMC31PA	50 V, 500 mA, NPN/PNP double RET; R1 = 1 kΩ, R2 = 10 kΩ in a small DFN2020-6 (SOT1118)	43
	PIMP31PA	50 V, 500 mA, PNP/PNP double RET; R1 = 1 kΩ, R2 = 10 kΩ in a small DFN2020-6 (SOT1118)	43
	PIMN32PAS-Q	50 V, 500 mA, NPN/NPN double RET; R1 = 2.2 kΩ, R2 = 10 kΩ in a small DFN2020D-6 (SOT1118D)	43
	PIMC32PAS-Q	50 V, 500 mA, NPN/PNP double RET; R1 = 2.2 kΩ, R2 = 10 kΩ in a small DFN2020D-6 (SOT1118D)	43
	PIMP32PAS-Q	50 V, 500 mA, PNP/PNP double RET; R1 = 2.2 kΩ, R2 = 10 kΩ in a small DFN2020D-6 (SOT1118D)	43
	PIMN32PA	50 V, 500 mA, NPN/NPN double RET; R1 = 2.2 kΩ, R2 = 10 kΩ in a small DFN2020-6 (SOT1118)	43
	PIMC32PA	50 V, 500 mA, NPN/PNP double RET; R1 = 2.2 kΩ, R2 = 10 kΩ in a small DFN2020-6 (SOT1118)	43
	PIMP32PA	50 V, 500 mA, PNP/PNP double RET; R1 = 2.2 kΩ, R2 = 10 kΩ in a small DFN2020-6 (SOT1118)	43

Diodes

Category	Products	Description	Page
Zener diodes	HPZR-Q series	High power dissipation 5.5W Zener in CFP3 with Tj 175°C	53
	HPZR series	High power dissipation 4.1W Zener in CFP3 with Tj 150°C	53
Switching diodes	BAS116LS (-Q)	Low-leakage 85V, 325mA switching diode	58
Recovery rectifiers	PNS40010AER (-Q)	400 V, 1 A high power density, standard switching time recovery rectifier	59
	PNU650100EJ (-Q)	650 V, 10 A Ultrafast recovery rectifier in D2PAK R2P	59
	PNE650100EJ (-Q)	650 V, 10 A Hyperfast recovery rectifier in D2PAK R2P	59
	PNU650150EJ (-Q)	650 V, 15 A Ultrafast recovery rectifier in D2PAK R2P	59
	PNE650150EJ (-Q)	650 V, 15 A Hyperfast recovery rectifier in D2PAK R2P	59
	PNU650200EJ (-Q)	650 V, 20 A Ultrafast recovery rectifier in D2PAK R2P	59
	PNE650200EJ (-Q)	650 V, 20 A Hyperfast recovery rectifier in D2PAK R2P	59
	PNU650150AEJ (-Q)	650 V, 15 A Ultrafast recovery rectifier in D2PAK R2P	59
	PNU650200AEJ (-Q)	650 V, 20 A Ultrafast recovery rectifier in D2PAK R2P	59
	PNU650300AEJ (-Q)	650 V, 30 A Ultrafast recovery rectifier in D2PAK R2P	59
SiC Schottky diodes	PSC1065H-Q	650 V, 10 A SiC Schottky diode in DPAK R2P	61
	PSC0665K	650 V, 6 A SiC Schottky diode in TO-220-2 R2P	61
	PSC1665J	650 V, 16 A SiC Schottky diode in D2PAK R2P	61
	PSC2065J	650 V, 20 A SiC Schottky diode in D2PAK R2P	61
	PSC1665L	650 V, 16 A SiC Schottky diode in TO-247 R2P	61
	PSC2065L	650 V, 20 A SiC Schottky diode in TO-247 R2P	61
Schottky diodes and rectifiers	BAT32ALS (-Q)	Low-leakage 30V, 200mA Schottky diode	63
	BAT32LS (-Q)	General-purpose 30V, 200mA Schottky diode	63
	PMEG2010EXD (-Q)		66
	PMEG3010EXD (-Q)	30 V, 1 A Schottky barrier rectifier	66
	PMEG4010EXD (-Q)	40 V, 1 A Schottky barrier rectifier	66
	PMEG6010EXD (-Q)	60 V, 1 A Schottky barrier rectifier	66
	PMEG2020CER (-Q)	20 V, 2 A Schottky barrier rectifier	66
	PMEG2020EXD (-Q)		66
	PMEG3020CER (-Q)	30 V, 2 A Schottky barrier rectifier	66
	PMEG3020EXD (-Q)		66
	PMEG4020CER (-Q)	40 V, 2 A Schottky barrier rectifier	66
	PMEG4020EXD (-Q)		66
	PMEG6020CER (-Q)	60 V, 2 A Schottky barrier rectifier	66
	PMEG6020EXD (-Q)		66
	PMEG2030CER (-Q)	20 V, 3 A Schottky barrier rectifier	66
	PMEG3030CEP (-Q)		66
	PMEG3030CER (-Q)	30 V, 3 A Schottky barrier rectifier	66
	PMEG4030CEP (-Q)		66
	PMEG4030CER (-Q)	40 V, 3 A Schottky barrier rectifier	66
	PMEG6030AEXE (-Q)	60 V, 3 A Schottky barrier rectifier	67
	PMEG6030CEP (-Q)		67
	PMEG6030CELP (-Q)		67
	PMEG6030EXE (-Q)	60 V, 3 A Schottky barrier rectifier	67
	PMEG6030CER (-Q)	60 V, 3 A Schottky barrier rectifier	67
	PMEG10030CELP (-Q)		67
	PMEG3050CEP (-Q)		67
	PMEG4050CEP (-Q)		67
	PMEG6050CEP (-Q)		67
	PMEG6050ELP (-Q)		67
	PMEG10050ELP (-Q)		67

ESD protection, TVS, filtering and signal conditioning

Category	Products	Description	Page
Automotive ESD protection and TVS	PESD1CANFD24LS-Q	Automotive in-vehicle networks (CAN/LIN/CAN-FD/Flex-ray) ESD protection	74
	PESD1CANFD30LS-Q	Automotive in-vehicle networks (CAN/LIN/CAN-FD/Flex-ray) ESD protection	74
	PESD1CANFD33LS-Q	Automotive in-vehicle networks (CAN/LIN/CAN-FD/Flex-ray) ESD protection	74
	PESD1CANFD36LS-Q	Automotive in-vehicle networks (CAN/LIN/CAN-FD/Flex-ray) ESD protection	74
	PESD1CANFD24L-Q	Automotive in-vehicle networks (CAN/LIN/CAN-FD/Flex-ray) ESD protection	74
	PESD1CANFD30L-Q	Automotive in-vehicle networks (CAN/LIN/CAN-FD/Flex-ray) ESD protection	74
	PESD1CANFD33L-Q	Automotive in-vehicle networks (CAN/LIN/CAN-FD/Flex-ray) ESD protection	74
	PESD1CANFD36L-Q	Automotive in-vehicle networks (CAN/LIN/CAN-FD/Flex-ray) ESD protection	74
	PESD2CAN24T-Q	Automotive in-vehicle networks (CAN/LIN/CAN-FD/Flex-ray) ESD protection	74
	PESD2CAN24LT-Q	Automotive in-vehicle networks (CAN/LIN/CAN-FD/Flex-ray) ESD protection	74
	PESD2CAN24XLT-Q	Automotive in-vehicle networks (CAN/LIN/CAN-FD/Flex-ray) ESD protection	74
	PESD2CANFD54VT-Q	Automotive in-vehicle networks (CAN/LIN/CAN-FD/Flex-ray) ESD protection	74
	PESD2CANFD54LT-Q	Automotive in-vehicle networks (CAN/LIN/CAN-FD/Flex-ray) ESD protection	74
	PESD2CANFD60VT-Q	Automotive in-vehicle networks (CAN/LIN/CAN-FD/Flex-ray) ESD protection	74
	PESD2CANFD60LT-Q	Automotive in-vehicle networks (CAN/LIN/CAN-FD/Flex-ray) ESD protection	74
	PESD2CANFD72VT-Q	Automotive in-vehicle networks (CAN/LIN/CAN-FD/Flex-ray) ESD protection	74
	PESD2CANFD72LT-Q	Automotive in-vehicle networks (CAN/LIN/CAN-FD/Flex-ray) ESD protection	74
	PESD2CANFD33UQB-Q	Automotive in-vehicle networks (CAN/LIN/CAN-FD/Flex-ray) ESD protection	75
	PESD2CANFD36UQB-Q	Automotive in-vehicle networks (CAN/LIN/CAN-FD/Flex-ray) ESD protection	75
	PESD2CANFD36VQB-Q	Automotive in-vehicle networks (CAN/LIN/CAN-FD/Flex-ray) ESD protection	75
	PESD2CANFD36LQB-Q	Automotive in-vehicle networks (CAN/LIN/CAN-FD/Flex-ray) ESD protection	75
	PESD2CANFD36UQC-Q	Automotive in-vehicle networks (CAN/LIN/CAN-FD/Flex-ray) ESD protection	75
	PESD2CANFD36VQC-Q	Automotive in-vehicle networks (CAN/LIN/CAN-FD/Flex-ray) ESD protection	75
	PESD2CANFD36LQC-Q	Automotive in-vehicle networks (CAN/LIN/CAN-FD/Flex-ray) ESD protection	75
	PESD1ETH10LS-Q	Automotive Open Alliance Ethernet 100BaseT1 ESD protection	75
	PESD1ETH10L-Q	Automotive Open Alliance Ethernet 100BaseT1 ESD protection	75
	PESD4USB3BBTBR-Q	Automotive high speed interfaces and infotainment ESD protection	76
	PESD4USB3BCTBR-Q	Automotive high speed interfaces and infotainment ESD protection	76
	PESD4USB5BBTBR-Q	Automotive high speed interfaces and infotainment ESD protection	76
	PESD4USB3UCTBR-Q	Automotive high speed interfaces and infotainment ESD protection	76
	PESD4USB5UBTBR-Q	Automotive high speed interfaces and infotainment ESD protection	76
	PESD4USB3BBTBS-Q	Automotive high speed interfaces and infotainment ESD protection	76
	PESD4USB5BBTBS-Q	Automotive high speed interfaces and infotainment ESD protection	76
	PESD4USB3UBTBS-Q	Automotive high speed interfaces and infotainment ESD protection	76
	PESD4USB5UBTBS-Q	Automotive high speed interfaces and infotainment ESD protection	76
	PESD4USB3BBTTS-Q	Automotive high speed interfaces and infotainment ESD protection	76
	PESD4USB5BBTTS-Q	Automotive high speed interfaces and infotainment ESD protection	76
	PESD4USB3UBTTS-Q	Automotive high speed interfaces and infotainment ESD protection	76
	PESD4USB5UBTTS-Q	Automotive high speed interfaces and infotainment ESD protection	76
	PESD5V0C1ULS-Q	Automotive high speed interfaces and infotainment ESD protection	76
	PESD5V0C1BLS-Q	Automotive high speed interfaces and infotainment ESD protection	76
	PESD5V5C1UL-Q	Automotive high speed interfaces and infotainment ESD protection	76
	PESD5V5C1BL-Q	Automotive high speed interfaces and infotainment ESD protection	76
	PESD5V0C2UM-Q	Automotive high speed interfaces and infotainment ESD protection	76
	PESD5V0H1BLL-Q	Automotive high speed interfaces and infotainment ESD protection	76
	PESD5V0H1BLG-Q	Automotive high speed interfaces and infotainment ESD protection	76
	PESD5V0H2BFG-Q	Automotive high speed interfaces and infotainment ESD protection	76
	PESD18VF1BLS-Q	Automotive high speed interfaces and infotainment ESD protection	77
	PESD24VF1BLS-Q	Automotive high speed interfaces and infotainment ESD protection	77
	PESD30VF1BLS-Q	Automotive high speed interfaces and infotainment ESD protection	77
	PESD32VF1BLS-Q	Automotive high speed interfaces and infotainment ESD protection	77
	MMBZ5V6A-T	Low capacitance unidirectional double ESD protection diode	78
	MMBZ6V2A-T	Low capacitance unidirectional double ESD protection diode	78
	MMBZ6V8A-T	Low capacitance unidirectional double ESD protection diode	78
	MMBZ9V1A-T	Low capacitance unidirectional double ESD protection diode	78
	MMBZ10VA-T	Low capacitance unidirectional double ESD protection diode	78
	MMBZ12VA-T	Low capacitance unidirectional double ESD protection diode	78
	MMBZ15VA-T	Low capacitance unidirectional double ESD protection diode	78
	MMBZ16VA-T	Low capacitance unidirectional double ESD protection diode	78
	MMBZ18VA-T	Low capacitance unidirectional double ESD protection diode	78

ESD protection, TVS, filtering and signal conditioning

Category	Products	Description	Page
Automotive ESD protection and TVS	MMBZ20VA-T	Low capacitance unidirectional double ESD protection diode	78
	MMBZ27VA-T	TVS device for surge protection of interface and supply lines	78
	MMBZ33VA-T	Low capacitance unidirectional double ESD protection diode	78
	MMBZ5V6AT-Q	Low capacitance unidirectional double ESD protection diode	78
	MMBZ6V2AT-Q	Low capacitance unidirectional double ESD protection diode	78
	MMBZ6V8AT-Q	Low capacitance unidirectional double ESD protection diode	78
	MMBZ9V1AT-Q	Low capacitance unidirectional double ESD protection diode	78
	MMBZ10VAT-Q	Low capacitance unidirectional double ESD protection diode	78
	MMBZ12VAT-Q	Low capacitance unidirectional double ESD protection diode	78
	MMBZ15VAT-Q	Low capacitance unidirectional double ESD protection diode	78
	MMBZ16VAT-Q	Low capacitance unidirectional double ESD protection diode	78
	MMBZ18VAT-Q	Low capacitance unidirectional double ESD protection diode	78
	MMBZ20VAT-Q	Low capacitance unidirectional double ESD protection diode	78
	MMBZ27VAT-Q	TVS device for surge protection of interface and supply lines	78
	MMBZ33VAT-Q	Low capacitance unidirectional double ESD protection diode	78
	MMBZ27VS-T	Low capacitance bidirectional single ESD protection diode	78
	MMBZ33VS-T	Low capacitance bidirectional single ESD protection diode	78
	MMBZ27VST-Q	Low capacitance bidirectional single ESD protection diode	78
	MMBZ33VST-Q	Low capacitance bidirectional single ESD protection diode	78
	MMBZ27VC-T	Low capacitance unidirectional double ESD protection diode	78
	MMBZ33VC-T	Low capacitance unidirectional double ESD protection diode	78
	MMBZ27VCT-Q	Double ESD protection diode	78
	MMBZ33VCT-Q	Low capacitance unidirectional double ESD protection diode	78
	MMBZ27VB-U	Low capacitance bidirectional dual line ESD protection diode	79
	MMBZ33VB-U	Low capacitance bidirectional dual line ESD protection diode	79
	MMBZ27VBU-Q	Low capacitance bidirectional dual line ESD protection diode	79
	MMBZ33VBU-Q	Low capacitance bidirectional dual line ESD protection diode	79
	MMBZ27VZ-LS	Low capacitance bidirectional single line ESD protection diode	79
	MMBZ33VZ-LS	Low capacitance bidirectional single line ESD protection diode	79
	MMBZ27VZLS-Q	Low capacitance bidirectional single line ESD protection diode	79
	MMBZ33VZLS-Q	Low capacitance bidirectional single line ESD protection diode	79
	MMBZ27VB-QC	Low capacitance bidirectional dual line ESD protection diode	79
	MMBZ33VB-QC	Low capacitance bidirectional dual line ESD protection diode	79
	MMBZ27VBQC-Q	Low capacitance bidirectional dual line ESD protection diode	79
	MMBZ33VBQC-Q	Low capacitance bidirectional dual line ESD protection diode	79
	MMBZ27VB-QB	Low capacitance bidirectional dual line ESD protection diode	79
	MMBZ33VB-QB	Low capacitance bidirectional dual line ESD protection diode	79
	MMBZ27VBQB-Q	Low capacitance bidirectional dual line ESD protection diode	79
	MMBZ33VBQB-Q	Low capacitance bidirectional dual line ESD protection diode	79
ESD protection	PESD5V5C1UBSF	Very low capacitance unidirectional ESD protection diode	80
	PESD15VW1UCSF	15V unidirectional ESD protection for very fast data lines like USB2	80
	PESD5V5C1UL	Extremely low clamping, low Vt1 unidirectional ESD protection diode for very fast data lines	80
	PESD3V3X2UT	Low capacitance low clamping ESD protection in SOT23	80
	PESD3V3F2UT	Low capacitance low clamping ESD protection in SOT23	80
	PESD5V0X2UT	Low capacitance low clamping ESD protection in SOT23	80
	PESD5V0F2UT	Low capacitance low clamping ESD protection in SOT23	80
	PESD2V0Y1BXM	Very thin very low clamping and Vt1 ESD protection for fast data lines	80
	PESD1V0Y1BBSF	USB4 retimer/redriver and other ultrafast data line ESD protection	80
	PESD1V0R1BESF	Extremely low capacitance bidirectional ESD protection diode	80
	PESD1V0R1BFSF	Extremely low capacitance bidirectional ESD protection diode	80
	PESD1V2Y1BSF	Extremely low clamping and low Vt1, extremely low capacitance ESD protection diode	80
	PESD2V8Y1BSF	USB4 retimer/redriver and other ultrafast data line ESD protection	80
	PESD4V0Y1BBSF	Extremely low clamping, low Vt1 ESD protection diode for very fast data lines like USB2/3	80
	PESD4V0Y1BCSF	ESD protection for USB4 retimer/redriver, HDMI2.1 TMDS/FRL and other ultrafast data lines	80
	PESD4V0Y1BHSF	ESD protection for very fast data lines like HDMI2.1 TMDS/FRL applications	80
	PESD5V0Y1BCSF		80
	PESD5V0R1BCSF	USB4 / antenna ESD protection	80
	PESD5V0R1BDSF	USB4 / antenna ESD protection	80
	PESD5V5C1BBSF	Extremely low capacitance bidirectional ESD protection diode	81
	PESD7V1R1BCSF	Extremely low clamping bidirectional ESD protection diode	81

ESD protection, TVS, filtering and signal conditioning

Category	Products	Description	Page
ESD protection	PESD7V1R1BDSF	Extremely low clamping bidirectional ESD protection diode	81
	PESD9V0C1BSF	9V ESD protection for very fast data lines like USB3	81
	PESD9V0Z1BDSF	9V ESD protection for very fast data lines like USB3	81
	PESD9V0W1BDSF	9V ESD protection for very fast data lines like USB2/3	81
	PESD12VY1BSF	12V ESD protection for very fast data lines like USB3	81
	PESD12VW1BCSF	12V ESD protection for very fast data lines like USB2/3	81
	PESD15VY1BSF	15V antenna and ultrafast data line ESD protection	81
	PESD15VW1BCSF	15V bidirectional ESD protection for very fast data lines like USB2/3	81
	PESD15VW1ACSF	+15V/-3.3 V asymmetric ESD protection for very fast data lines like USB2/3	81
	PESD18VF1BBSF	18V low C ESD protection for NFC, WiFi antenna	81
	PESD24VY1BSF	24V antenna and ultrafast data line ESD protection	81
	PESD24VY1BBSF		81
	PESD24VF1BBSF	Extremely low capacitance bidirectional ESD protection diode	81
	PESD30VF1BSF	Extremely low capacitance bidirectional ESD protection diode	81
	PESD30VY1BSF		81
	PESD1V0Y1BIF	Extremely low clamping bidirectional ESD protection diode	81
	PESD18VY1BBIF	18V antenna and ultrafast data line ESD protection	81
	PESD5V5C1BL	Very low clamping, Vt1, capacitance, low InsertionLoss ESD protection in SOD882	81
	PESD18VF1BBL	18V low C ESD protection for NFC, WiFi antenna and very fast data lines	81
	PESD24VF1BBL	24V low C ESD protection for NFC, WiFi antenna and very fast data lines	81
	PESD30VF1BBL	30V low C ESD protection for NFC, WiFi antenna and very fast data lines	81
	PESD3V3C2UM	Extremely low capacitance unidirectional ESD protection diode array	81
	PESD4V0X2UM	High surge, low clamping low capacitance ESD protection array in SOT883	81
	PESD5V0C2UM	Low clamping low capacitance ESD protection array in SOT883	81
	PESD5V0C2BDF	Extremely low clamping low capacitance ESD protection array in DFN0603-3	82
	PESD4V0Z2BCDF	Extremely low clamping low capacitance ESD protection array in DFN0603-3	82
	PHDMI2FC4	Very low capacitance unidirectional ESD protection diode array	82
	PUSB3FS4	Very low clamping unidirectional ESD protection array in SOT1176 for fast data lines like USB3	82
	PUSB3BB4	Very low clamping bidirectional ESD protection array in SOT1176 for fast data lines like USB3	82
	PUSB3CB4	Very low clamping bidirectional ESD protection array in SOT1176 for fast data lines like USB3	82
	PHDMI2FS4	Very low clamping unidirectional ESD protection array in SOT1176 for fast data lines like HDMI2.1	82
	PHDMI2BB4	Very low clamping bidirectional ESD protection array in SOT1176 for fast data lines like HDMI2.1	82
	PHDMI2CB4	Very low clamping bidirectional ESD protection array in SOT1176 for fast data lines like HDMI2.1	82
	PESD12VV1BSF	Very low capacitance high voltage bidirectional ESD protection diode	84
	PESD15VV1BSF	Very low capacitance high voltage bidirectional ESD protection diode	84
	PESD18VV1BASF	Very low capacitance high voltage bidirectional ESD protection diode	84
	PESD20VV1BSF	Very low capacitance high voltage bidirectional ESD protection diode	84
	PESD22VV1BSF	Very low capacitance high voltage bidirectional ESD protection diode	84
	PESD24VV1BSF	Very low capacitance high voltage bidirectional ESD protection diode	84
	PESD24VV1BBSF	Very low capacitance high voltage bidirectional ESD protection diode	84
	PESD27VV1BSF	Very low capacitance high voltage bidirectional ESD protection diode	84
	PESD30VV1BSF	Very low capacitance high voltage bidirectional ESD protection diode	84
	PESD33VV1ASF	Very low capacitance high voltage asymmetric bidirectional ESD protection diode	84
	PESD36VV1ASF	Very low capacitance high voltage asymmetric bidirectional ESD protection diode	84
	PESD24VV1BL	Bidirectional 24 V ESD protection diode	85
	PESD27VV1BL	Bidirectional 27 V ESD protection diode	85
	PESD48VV2BT	ESD protection for 48V lines	86
	PESD3V3L4BHC	4-fold bidirectional ESD protection array	86
EMI solutions with integrated protection	PCMF1HDMI2BA-C	Protected Common Mode Filter for very fast data lines like HDMI2.1, one line pair	87
	PCMF2HDMI2BA-C	Protected Common Mode Filter for very fast data lines like HDMI2.1, two line pairs	87
	PCMF3HDMI2BA-C	Protected Common Mode Filter for very fast data lines like HDMI2.1, three line pairs	87
Surge Suppressor (TVS)	PTVS5V0Z1UCL	Transient Voltage Suppressor	88
	PTVS5V0D1UCL	Transient Voltage Suppressor	88
	PTVS6V3Z1UCL	Transient Voltage Suppressor	88
	PTVS6V3D1UCL	Transient Voltage Suppressor	88
	PTVS20VD1UL	Ultra compact Transient Voltage Suppressor	88
	PTVS5V5Z1UPC	Transient Voltage Suppressor	88
	PTVS6V3Z1UPC	Transient Voltage Suppressor	88
	PTVS30VZ1UPA	Transient Voltage Suppressor	88
	PTVS9V0P1BPL	600 W Transient Voltage Suppressor	92

Category	Products	Description	Page
Surge Suppressor (TVS)	PTVS10VP1BPL	600 W Transient Voltage Suppressor	92
	PTVS11VP1BPL	600 W Transient Voltage Suppressor	92
	PTVS12VP1BPL	600 W Transient Voltage Suppressor	92
	PTVS13VP1BPL	600 W Transient Voltage Suppressor	92
	PTVS14VP1BPL	600 W Transient Voltage Suppressor	92
	PTVS15VP1BPL	600 W Transient Voltage Suppressor	92
	PTVS16VP1BPL	600 W Transient Voltage Suppressor	92
	PTVS17VP1BPL	600 W Transient Voltage Suppressor	92
	PTVS18VP1BPL	600 W Transient Voltage Suppressor	92
	PTVS20VP1BPL	600 W Transient Voltage Suppressor	92
	PTVS22VP1BPL	600 W Transient Voltage Suppressor	92
	PTVS24VP1BPL	600 W Transient Voltage Suppressor	92
	PTVS26VP1BPL	600 W Transient Voltage Suppressor	92
	PTVS28VP1BPL	600 W Transient Voltage Suppressor	92
	PTVS30VP1BPL	600 W Transient Voltage Suppressor	92
	PTVS33VP1BPL	600 W Transient Voltage Suppressor	92
	PTVS36VP1BPL	600 W Transient Voltage Suppressor	92
	PTVS40VP1BPL	600 W Transient Voltage Suppressor	92
	PTVS43VP1BPL	600 W Transient Voltage Suppressor	92
	PTVS45VP1BPL	600 W Transient Voltage Suppressor	92
	PTVS48VP1BPL	600 W Transient Voltage Suppressor	92
	PTVS51VP1BPL	600 W Transient Voltage Suppressor	92
	PTVS54VP1BPL	600 W Transient Voltage Suppressor	92
	PTVS58VP1BPL	600 W Transient Voltage Suppressor	92
	PTVS60VP1BPL	600 W Transient Voltage Suppressor	92
	PTVS64VP1BPL	600 W Transient Voltage Suppressor	92
	PTVS70VP1BPL	600 W Transient Voltage Suppressor	92
	PTVS75VP1BPL	600 W Transient Voltage Suppressor	92
	PTVS78VP1BPL	600 W Transient Voltage Suppressor	92
	PTVS85VP1BPL	600 W Transient Voltage Suppressor	92
	PTVS90VP1BPL	600 W Transient Voltage Suppressor	92
	PTVS100VP1BPL	600 W Transient Voltage Suppressor	92
	PTVS110VP1BPL	600 W Transient Voltage Suppressor	92
	PTVS120VP1BPL	600 W Transient Voltage Suppressor	92
	PTVS130VP1BPL	600 W Transient Voltage Suppressor	92
	PTVS150VP1BPL	600 W Transient Voltage Suppressor	92
	PTVS160VP1BPL	600 W Transient Voltage Suppressor	92

MOSFETs

Category	GAN products	Description	Page
Automotive MOSFETs	BUK7Y1R0-40N	N-channel 40 V, 0.97 mOhm, Standard level MOSFET in LFPAK56	99
	BUK7Y3R1-80M	N-channel 80 V, 3.1 mOhm, Standard level MOSFET in LFPAK56	103
	BUK9K12-80L	Dual N-channel 80 V, 12 mOhm logic level MOSFET in LFPAK56D	103
	BUK9K49-80L	Dual N-channel 80 V, 49 mOhm logic level MOSFET in LFPAK56D	103
	BUK7J2R4-80M	N-channel 80 V, 2.4 mOhm, Standard level MOSFET in LFPAK56E	103
	BUK9M13-80L	N-channel 80 V, 13 mOhm logic level MOSFET in LFPAK33	103
	BUK9M24-80L	N-channel 80 V, 24 mOhm logic level MOSFET in LFPAK33	103
	BUK9M48-80L	N-channel 80 V, 48 mOhm logic level MOSFET in LFPAK33	103
	BUK9K35-100L		104
	BUK9M16-100L	N-channel 100 V, 16 mOhm logic level MOSFET in LFPAK33	105
	BUK9M60-100L	N-channel 100 V, 60 mOhm logic level MOSFET in LFPAK33	105
	PMDPB30XNA	20 V, dual N-channel Trench MOSFET	108
	PMDPB55XPA	20 V, dual P-channel Trench MOSFET	108
	PMCPB5530XA	20 V, complementary Trench MOSFET	108
Power MOSFETs	PSMNR70-40YSN	N-channel 40 V, 0.81 mOhm, ASFET for Battery System in LFPAK56E	112
	PSMNR90-40YSN	N-channel 40 V, 0.97 mOhm, 320 A, standard level MOSFET in LFPAK56	112
	PSMN1R7-40YLB	N-channel 40 V, 1.8 mOhm, 200 A logic level MOSFET in LFPAK56	112

MOSFETs

Category	GAN products	Description	Page
Power MOSFETs	PSMN1R9-40YSB	N-channel 40 V, 1.9 mOhm, 200 A standard level MOSFET in LFPAK56	112
	PSMN2R0-40YLB	N-channel 40 V, 2.1 mOhm, 180 A logic level MOSFET in LFPAK56	112
	PSMN2R2-40YSB	N-channel 40 V, 2.2 mOhm, 180 A standard level MOSFET in LFPAK56	112
	PSMN2R5-40YLB	N-channel 40 V, 2.6 mOhm, 160 A logic level MOSFET in LFPAK56	112
	PSMN2R8-40YSB	N-channel 40 V, 2.8 mOhm, 160 A standard level MOSFET in LFPAK56	112
	PSMN3R2-40YLB	N-channel 40 V, 3.3 mOhm, 120 A logic level MOSFET in LFPAK56	112
	PSMN3R5-40YSB	N-channel 40 V, 3.5 mOhm, 120 A standard level MOSFET in LFPAK56	112
	PSMN6R8-40HS	N-channel 40 V, 6.8 mOhm, standard level MOSFET in LFPAK56D using TrenchMOS technology	113
	PSMN8R0-40HL	N-channel 40 V, 9.4 mOhm, logic level MOSFET in LFPAK56D using TrenchMOS technology	113
	PSMN8R5-40HS	N-channel 40 V, 8.5 mOhm, standard level MOSFET in LFPAK56D using TrenchMOS technology	113
	PSMN014-40HLD	N-channel 40 V, 13.6 mOhm, logic level MOSFET in LFPAK56D using NextPowerS3 technology	113
	PSMN013-40VLD	Dual N-channel 40 V, 13 mOhm logic level MOSFET in LFPAK56D (half-bridge configuration)	113
	PSMN9R3-60HS	N-channel 60 V, 9.3 mOhm, standard level MOSFET in LFPAK56D using TrenchMOS technology	113
	PSMN013-60HS	N-channel 60 V, 10 mOhm, standard level MOSFET in LFPAK56D using TrenchMOS technology	113
	PSMN011-60HL	N-channel 60 V, 11.5 mOhm, logic level MOSFET in LFPAK56D using TrenchMOS technology	113
	PSMN012-60HL	N-channel 60 V, 12.5 mOhm, logic level MOSFET in LFPAK56D using TrenchMOS technology enhanced for repetitive avalanche	113
	PSMN013-60HL	N-channel 60 V, 12.5 mOhm, logic level MOSFET in LFPAK56D using TrenchMOS technology	113
	PSMN014-60HS	N-channel 60 V, 14 mOhm, standard level MOSFET in LFPAK56D using TrenchMOS technology	113
	PXN5R7-60QLA	N-channel 60 V, 5.7 mOhm, logic level Trench MOSFET in MLPAK33	113
	PXN6R2-60QLA	N-channel 60 V, 6.2 mOhm, logic level Trench MOSFET in MLPAK33	113
	PXN6R8-60QLA	N-channel 60 V, 6.8 mOhm, logic level Trench MOSFET in MLPAK33	113
	PXN7R7-60QLA	N-channel 60 V, 7.7 mOhm, logic level Trench MOSFET in MLPAK33	113
	PXN9R1-60QLA	N-channel 60 V, 9.1 mOhm, logic level Trench MOSFET in MLPAK33	113
	PXN011-60QLA	N-channel 60 V, 11 mOhm, logic level Trench MOSFET in MLPAK33	113
	PXN014-60QLA	N-channel 60 V, 14 mOhm, logic level Trench MOSFET in MLPAK33	113
	PXN012-60QL	N-channel 60 V, 11.5 mOhm, logic level Trench MOSFET in MLPAK33	113
	PSMNR90-80ASF	NextPower 80 V, 0.85 mOhm, N-channel MOSFET in CCPAK1212 package	114
	PSMNR90-80ASE	N-channel, 80 V, 0.9 mOhm, MOSFET with enhanced SOA in CCPAK1212 package	114
	PSMN1R0-100ASF	NextPower 100 V, 0.99 mOhm, N-channel MOSFET in CCPAK1212 package	114
	PSMN1R0-100ASE	N-channel, 100 V, 1.04 mOhm, MOSFET with enhanced SOA in CCPAK1212 package	114
	PSMN1R1-80ASF	NextPower 80 V, 1.11 mOhm, N-channel MOSFET in CCPAK1212 package	114
	PSMN1R2-80ASE	N-channel, 80 V, 1.18 mOhm, MOSFET with enhanced SOA in CCPAK1212 package	114
	PSMN1R3-100ASF	NextPower 100 V, 1.3 mOhm, N-channel MOSFET in CCPAK1212 package	114
	PSMN1R4-100ASE	N-channel, 100 V, 1.36 mOhm, MOSFET with enhanced SOA in CCPAK1212 package	114
	PSMNR90-80CSF	NextPower 80 V, 0.9 mOhm, N-channel MOSFET in CCPAK1212i package	114
	PSMN1R0-80CSE	N-channel, 80 V, 0.95 mOhm, MOSFET with enhanced SOA in CCPAK1212i package	114
	PSMN1R0-100CSF	NextPower 100 V, 1.04 mOhm, N-channel MOSFET in CCPAK1212i package	114
	PSMN1R1-100CSE	N-channel, 100 V, 1.09 mOhm, MOSFET with enhanced SOA in CCPAK1212i package	114
	PSMN1R1-80CSF	NextPower 80 V, 1.16 mOhm, N-channel MOSFET in CCPAK1212i package	114
	PSMN1R2-80CSE	N-channel, 80 V, 1.18 mOhm, MOSFET with enhanced SOA in CCPAK1212i package	114
	PSMN1R4-100CSF	NextPower 100 V, 1.35 mOhm, N-channel MOSFET in CCPAK1212i package	114
	PSMN1R4-100CSE	N-channel, 100 V, 1.42 mOhm, MOSFET with enhanced SOA in CCPAK1212i package	114
	PSMN2R6-80YSF	NextPower 80 V, 2.4 mOhm, 231 A, N-channel MOSFET in LFPAK56E package	114
	PSMN3R5-80YSF	NextPower 80 V, 3.5 mOhm, 150 A, N-channel MOSFET in LFPAK56E package	114
	PSMN4R2-80YSE	N-channel 80 V, 4.2 mOhm MOSFET with enhanced SOA in LFPAK56E	114
	PSMN3R9-100YSF	NextPower 100 V, 4.3 mOhm, 120 A, N-channel MOSFET in LFPAK56E package	114
	PSMN4R8-100YSE	N-channel 100 V, 4.8 mOhm MOSFET with enhanced SOA in LFPAK56E	114
	PSMN3R3-80YSF	NextPower 80 V, 3.1 mOhm, 160 A, N-channel MOSFET in LFPAK56 package	115
	PSMN4R5-80YSF	NextPower 80 V, 4.5 mOhm N-channel MOSFET in LFPAK56	115
	PSMN5R5-100YSF	NextPower 100 V, 5.6 mOhm N-channel MOSFET in LFPAK56 package	115
	PSMN7R2-100YSF	NextPower 100 V, 6.9 mOhm N-channel MOSFET in LFPAK56 package	115
	PSMN8R7-100YSF	NextPower 100 V, 9 mΩ N-channel MOSFET in LFPAK56 package	115
	PSMN9R8-100YSF	NextPower 100 V, 10.2 mOhm N-channel MOSFET in LFPAK56 package	115
	PSMN012-100YSF	NextPower 100 V, 11.8 mOhm N-channel MOSFET in LFPAK56 package	115
	PSMN015-100YSF	NextPower 100 V, 15.5 mOhm N-channel MOSFET in LFPAK56 package	115
	PSMN025-100HS	N-channel 100 V, 24.5 mOhm, standard level MOSFET in LFPAK56D using TrenchMOS technology	115
	PSMN029-100HL	N-channel 100 V, 29 mOhm, logic level MOSFET in LFPAK56D using TrenchMOS technology	115
	PSMN028-100HS	N-channel 100 V, 27.5 mOhm, standard level MOSFET in LFPAK56D using TrenchMOS technology	115
	PSMN033-100HL	N-channel 100 V, 31 mOhm, logic level MOSFET in LFPAK56D using TrenchMOS technology	115
	PSMN038-100HS	N-channel 100 V, 37.6 mOhm, standard level MOSFET in LFPAK56D using TrenchMOS technology	115

Category	GAN products	Description	Page
Power MOSFETs	PSMN045-100HL	N-channel 100 V, 45 mOhm, logic level MOSFET in LFPAK56D using TrenchMOS technology	115
	PSMN1R3-80SSF	NextPower 80 V, 1.2 mOhm, 335 Amp, N-channel MOSFET in LFPAK88 package	116
	PSMN1R8-80SSF	NextPower 80 V, 1.8 mOhm, 270 Amp, N-channel MOSFET in LFPAK88 package	116
	PSMN1R9-80SSE	N-channel 80 V, 1.9 mOhm MOSFET with enhanced SOA in LFPAK88	116
	PSMN2R3-80SSF	NextPower 80 V, 2.3 mOhm, 240 Amp, N-channel MOSFET in LFPAK88 package	116
	PSMN2R5-80SSE	N-channel 80 V, 2.5 mOhm MOSFET with enhanced SOA in LFPAK88	116
	PSMN2R8-80SSF	NextPower 80 V, 2.8 mOhm, 205 Amp, N-channel MOSFET in LFPAK88 package	116
	PSMN2R0-100SSF	NextPower 100 V, 2.07 mOhm, 267 Amp, N-channel MOSFET in LFPAK88 package	116
	PSMN2R3-100SSE	N-channel 100 V, 2.3 mOhm MOSFET with enhanced SOA in LFPAK88	116
	PSMN2R9-100SSE	N-channel 100 V, 2.9 mOhm MOSFET with enhanced SOA in LFPAK88	116
	PSMN2R6-100SSF	NextPower 100 V, 2.6 mOhm, 200 Amp, N-channel MOSFET in LFPAK88 package	116
	PSMN3R3-100SSF	NextPower 100 V, 3.3 mOhm, 180 Amp, N-channel MOSFET in LFPAK88 package	116
	PXN011-100QL	N-channel 100 V, 11 mOhm, logic level Trench MOSFET in MLPAK33	116
	PXN011-100QS	N-channel 100 V, 11 mOhm, standard level Trench MOSFET in MLPAK33	116
	PXN012-100QL	N-channel 100 V, 12 mOhm, logic level Trench MOSFET in MLPAK33	116
	PXN012-100QS	N-channel 100 V, 12 mOhm, standard level Trench MOSFET in MLPAK33	116
	PXN020-100QS	N-channel 100 V, 20 mOhm, standard level Trench MOSFET in MLPAK33	116
	PXN028-100QL	N-channel 100 V, 28 mOhm, logic level Trench MOSFET in MLPAK33	116
	PXN040-100QS	N-channel 100 V, 40 mOhm, standard level Trench MOSFET in MLPAK33	116
	PXN2R8-100RL	N-channel 100 V, 2.8 mOhm, logic level Trench MOSFET in MLPAK56	116
	PXN2R9-100RS	N-channel 100 V, 2.9 mOhm, standard level Trench MOSFET in MLPAK56	116
	PSMN047-100NSE	N-channel 100 V, 53 mOhm standard level ASFET with enhanced SOA in DFN2020	116
	PSMN071-100NSE	N-channel 100 V, 82 mOhm standard level ASFET with enhanced SOA in DFN2020	116
	PXP700-150QS	150 V, P-channel Trench MOSFET	117

Power GaN FETs

Category	GAN products	Description	Page
Power GaN FETs	GANE7R0-100CBA	100 V, 7.0 mΩ Gallium Nitride (GaN) FET in a Wafer Level Chip-Scale Package (WLCSP)	137
	GANE2R7-100CBA	100 V, 2.7 mΩ Gallium Nitride (GaN) FET in a Wafer Level Chip-Scale Package (WLCSP)	137
	GANE1R8-100QBA	100 V, 1.8 mΩ Gallium Nitride (GaN) FET in a Wafer Level Chip-Scale Package (WLCSP)	137
	GANE3R9-150QBA	150 V, 3.9 mOhm Gallium Nitride (GaN) FET in a 4.0 mm x 6.0 mm Very-Thin-Profile Quad Flat No-Lead Package (VQFN)	137
	GANE350-650FBA	650 V, 350 mΩ Gallium Nitride (GaN) FET in a DFN 5 mm x 6 mm surface mount package	137
	GANE600-650FBA	650 V, 600 mΩ Gallium Nitride (GaN) FET in a DFN 5 mm x 6 mm surface mount package	137
	GANE140-700BBA	700 V, 140 mΩ Gallium Nitride (GaN) FET in a DPAK package	137
	GANE190-700BBA	700 V, 190 mΩ Gallium Nitride (GaN) FET in a DPAK package	137
	GANE240-700BBA	700 V, 240 mΩ Gallium Nitride (GaN) FET in a DPAK package	137
	GANE350-700BBA	700 V, 350 mΩ Gallium Nitride (GaN) FET in a DPAK package	137
	GANB1R2-040QBA	40 V, 1.2 mΩ bi-directional Gallium Nitride (GaN) High Electron-Mobility-Transistor (HEMT)	137
	GANB4R8-040CBA	40 V, 4.8 mOhm bi-directional Gallium Nitride (GaN) FET in a 2.1 mm x 2.1 mm Wafer Level Chip-Scale Package (WLCSP)	137
	GANB8R0-040CBA	40 V, 8.0 mΩ bi-directional Gallium Nitride (GaN) High Electron-Mobility-Transistor (HEMT)	137
	GANB012-040CBA	40 V, 12 mΩ bi-directional Gallium Nitride (GaN) High Electron-Mobility-Transistor (HEMT)	137
	GAN039-650NBB	650 V, 33 mOhm Gallium Nitride (GaN) FET in a CCPAK1212 package	137
	GAN039-650NTB	650 V, 33 mOhm Gallium Nitride (GaN) FET in a CCPAK1212 package	137
	GAN041-650WSB	650 V, 35 mΩ Gallium Nitride (GaN) FET in a TO-247 package	137
	GAN111-650WSB	650 V, 97 mOhm Gallium Nitride (GaN) FET in a TO-247 package	137

Bipolar Discretes Q-portfolio

Introducing a new semiconductor quality that is addressing the growing support levels enhanced by ACES and prepares Bipolar Discretes for future automotive designs.

The largest automotive innovations are still ahead of us

- › Autonomous Driving, connectivity, electrified- and shared mobility (ACES) will shape the future of automobility and redefine the manner of moving from place to place.
- › ACES amplify the need for proven reliability in increasingly challenging environments and for extended operating times [e.g. over-night operation of xEV on-board chargers].
- › Essential quality of all components is key for mission-critical functions and amplified by regulatory pressures and reduces prospective service cost or even the risk of personal injuries.

Nexperia introduces future-proof automotive portfolio for Bipolar Discretes | The Q-Portfolio

- › On top of all automotive standards (e.g. AEC-Q101) Nexperia always enhanced its preeminent quality level by close consultation of its industry leading customer base (e.g. via regular audits).
- › With our dedicated automotive portfolio of Bipolar Discretes (e.g. BAV99-Q) we gear up to address the growing quality and support levels enhanced by ACES.
- › Moreover, we offer an additional option of standard types if an automotive grade is not required.

Quality | Moving beyond AEC-Q101

Continuously adopting the latest quality standards exceeding AEC-Q101 by new mission profiles (VDE ITG MN5.7), extended firewalls and more.

Supply | Incorporate particular industry needs

Guaranteed longevity of >10 years, <2 years date code, supply prioritization, IATF Certification and use of VDA A-rated in-house front- and backend.

The Q-portfolio



Service | Unique support for unique customers

Additional support offer including PPAPs, extended PCN implementation time and more.

Performance | Tailored investments to suit automotive needs

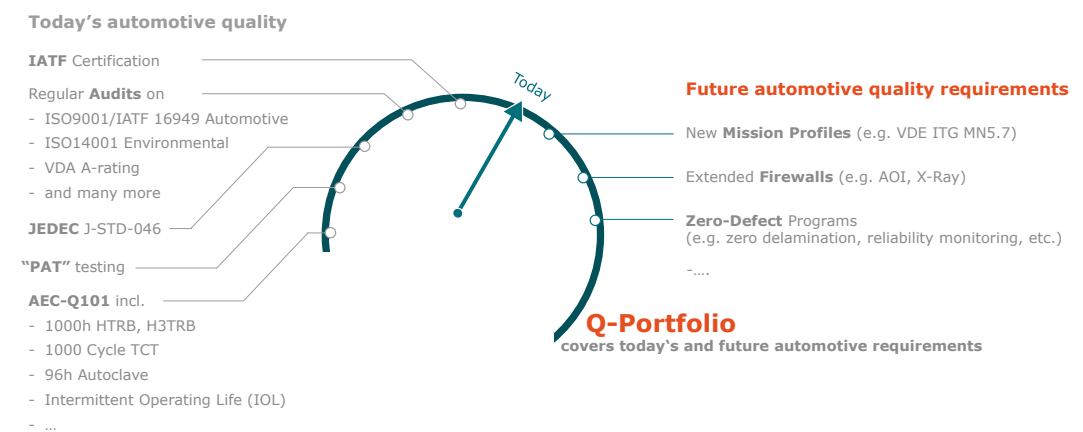
Drive CAPEX investments into dedicated automotive portfolio executed via BCamX Product Creation Process compliant to automotive APQP.

Our promise:

- › With our Q-Portfolio you automatically benefit from the adoption of future automotive standards.
- › We continue to guarantee all performance specifications stated in the datasheets.
- › The transfer to Q-Portfolio has no impact on (1) confirmed shipments, (2) product supply chain or (3) negotiated contract prices.

The Q-portfolio – Q for Quality

Based on today's automotive requirements, the Q-portfolio will adopt future quality standards



Service options

With the introduction of the Q-portfolio, Bipolar Discretes offers 2 portfolio options, depending on each customer service level requirement.

Q-Portfolio		Standard Portfolio
• 2x JEDEC 180 days ¹⁾	PCN handling	• JEDEC 90 days
• Supported	PPAP	• Not supported
• Minimum of 10 years	Longevity	• Minimum of 5 years
• <2 years	Date Code	• <4 years
• Very high	Supply Priority²⁾	• High

Product overview

Q-portfolio types will be offered across all Bipolar Discretes product groups. Types can be recognized by the -Q ending of the part name.

Small Signal Diodes		Small Signal Transistors		Power Rectifiers		Power Transistors		BISS Transistors		ESD Protection	
ProductType	Package	ProductType	Package	ProductType	Package	ProductType	Package	ProductType	Package	ProductType	Package
BAS316	SOD323	BC817-40	SOT23	PMEG100V080ELPD	SOT128	BCX56-16	SOT89	PBSS5255PAPS	SOT111	PESD24VL18A	SOD323
BAV99	SOT23	BC847C	SOT23	PMEG4005EJ	SOD323	BCP56-16T	SOT223	PBSS5240T	SOT23	PESD2IVN24-T	SOT23
BAS21	SOT23	BC817-25	SOT23	PMEG10020ELR	SOD123	BCX53-16	SOT89	PBSS5350T	SOT23	PESD15VL18A	SOT23
BAT54S	SOT23	BC846B	SOT23	PMEG4050EP	SOD128	BCP53-16	SOT223	PBSS4350T	SOT23	PESD21V18A	SOT23
BAV99W	SOT23	BC807-40	SOT23	PMEG6010ER	SOT323	BSR41	SOT89	PBSS4140T	SOT23	PESD21V18A	SOT23
BAV70	SOT23	BC847BPN	SOT363	BAT760	SOT363	BCX56-10	SOT89	PBSS4350Z	SOT23		
BAS321	SOD323	BC847B	SOT23	PMEG4010BEA	SOD323	BCX56	SOT89	PBSS4240T	SOT89		
BAT54C	SOT23	PUMD3	SOT363	PMEG6030EP	SOD123	BCX52-16	SOT89				
BAS16VY	SOT363	PUMD9	SOT363	PMEG10010ELR	SOD123	PBSS5350X					
BAT46WJ	SOD323	PUMD3	SOT363	PMEG4010CEJ	SOD323						
BAV70W	SOT23	BC807-25	SOT23	PMEG6020ER	SOT323						
BAT54SW	SOT323	BC847B5	SOT363								
BAV99S	SOT363	PDT114ET	SOT23								
BAT54	SOT23	BC817-40W	SOT323	PMEG4010ER	SOD123						
BAS16	SOT23	BC856B	SOT23								
BAT54CW	SOT323	BC857B5	SOT363								
BAV199	SOT23	BC847CW	SOT23								
BAT54A	SOT23	PUMH9	SOT23								
BAW56	SOT23										
BAT54AW	SOT23										

Future Bipolar Discretes Portfolio
(exemplary)

Standard Portfolio	Q-Portfolio
BAS316	BAS316-Q
BAV99	BAV99-Q
BAS21	BAS21-Q
...	...

1) AUTOMOTIVE QUALIFIED



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Bipolar transistors

1

Bipolar Discretes Q-portfolio	18
General purpose bipolar transistors.....	22
Small signal transistors single NPN.....	22
Small signal transistors single PNP	23
High performance transistors (superior power dissipation)	24
Small signal transistors double	24
Small signal switching transistors single.....	25
Small signal switching transistors double.....	25
175 °C capable products	26
Power transistors	26
General purpose power transistors	27
General purpose high voltage transistors	27
PNP LED driver.....	28
NPN LED driver	28
Constant current source	28
Darlington transistors.....	29
Schmitt-triggers.....	29
Low noise transistors.....	29
Matched pair transistors - part 1	30
Matched pair transistors - part 2	30
MOSFET driver	31
Medium frequency transistors.....	31
Low V_{CEsat} transistors.....	32
Low V_{CEsat} transistors single NPN up to 2000 mW.....	32
Low V_{CEsat} transistors single NPN up to 750 mW	33
Low V_{CEsat} transistors single PNP up to 2000 mW.....	34
Low V_{CEsat} transistors single PNP up to 750 mW.....	35
Low V_{CEsat} transistors double	36
Low V_{CEsat} transistors load switches.....	37
Low V_{CEsat} high voltage transistors	38
Low V_{CEsat} transistors PNP - N-channel MOSFET combination.....	38
Low V_{CEsat} power transistors single (175 °C capable)	39
Low V_{CEsat} power transistors double (175 °C capable)	39
Resistor equipped transistors (RETs)	40
50 V/100 mA single NPN RETs	40
50 V/100 mA single PNP RETs.....	41
50 V/100 mA double RETs	42
80 V/100 mA single/double RETs	42
50 V/500 mA single RETs	43
50 V/500 mA double RETs	43
40V/600 mA Performance-based single RETs.....	43
3-terminal adjustable shunt regulators	44
Nomenclatures	45

Small signal transistors single NPN

Package					Automotive-qualified				
					SOT23	SOT323 (SC-70)	DFN1412D-3 (SOT8009)	DFN1110D-3 (SOT8015)	DFN1006-3 (SOT883)
					Leaded SMD		DFN		
									
Size (mm)					2.9 x 1.3 x 1.0	2.0 x 1.25 x 0.95	1.4 x 1.2 x 0.47	1.1 x 1.0 x 0.47	1.0 x 0.6 x 0.5
P _{tot} (mW)					250	200	360	340	250
V _{CEO} (V)	I _C (mA)	h _{FE} min/typ	h _{FE} max	f _T min (MHz)					
25	100	450	1200	100		PMST5089			
30	100	110 - 200	450 - 800	100	BC848B (-Q)	BC848W (-Q)			
		350	900	100		PMST5088			
32	100	110	220	100	BCW31				
		200	450	100	BCW32				
		420	800	100	BCW33				
		180	310	100	BCW60B				
		250	460	100	BCW60C				
		380	630	100	BCW60D				
45	100	110	800	100	BC847 (-Q)	BC847W (-Q)			
		110	220	100	BC847A (-Q)	BC847AW (-Q)	BC847AQC (-Q)	BC847AQB (-Q)	BC847AM (-Q)
		200	450	100	BC847B (-Q)	BC847BW (-Q)	BC847BQC (-Q)	BC847BQB (-Q)	BC847BM (-Q)
		420	800	100	BC847C (-Q)	BC847CW (-Q)	BC847CQC (-Q)	BC847CQB (-Q)	BC847CM (-Q)
		120	220	100	BCX70G				
		180	310	100	BCX70H				
		250	460	100	BCX70J				
		380	630	100	BCX70K				
		110	220	100	BCW71				
		200	450	100	BCW72				
		500	1250	100	PMBT6429	PMST6429			
50	100	210	340	100 - 150	2PD601ART (-Q)				
		210	340	100 - 150	2PD601ARL	2PD601ARW (-Q)			
		290	460	100 - 150	2PD601ASL	2PD601ASW (-Q)			
		250	650	100	PMBT6428	PMST6428			
60	100	110	220	100	BCV71 (-Q)				
		200	450	100	BCV72 (-Q)				
65	100	110	450	100	BC846 (-Q)	BC846W (-Q)			
		110	220	100	BC846A (-Q)	BC846AW (-Q)	BC846AQC (-Q)	BC846AQB (-Q)	
		200	450	100	BC846B (-Q)	BC846BW (-Q)	BC846BQC (-Q)	BC846BQB (-Q)	BC846BM (-Q)
50	150	120	270	100		2PC4081Q (-Q)			2PC4617QMB
		180	390	100		2PC4081R (-Q)			2PC4617RMB
		270	560	100		2PC4081S (-Q)			
	200	210	340	100	2PD601BRL				
		290	460	100	2PD601BSL				
45	500	100	600	100	BC817 (-Q)	BC817W (-Q)			
		100	250	100	BC817-16 (-Q)	BC817-16W (-Q)	BC817-16QC (-Q)	BC817-16QB (-Q)	
		160	400	100	BC817-25 (-Q)	BC817-25W (-Q)	BC817-25QC (-Q)	BC817-25QB (-Q)	
		250	600	100	BC817-40 (-Q)	BC817-40W (-Q)	BC817-40QC (-Q)	BC817-40QB (-Q)	
		100	600	100	BCX19 (-Q)				
50	500	85	170	140 - 180	2PD602AQL (-Q)				
		120	240	140 - 180	2PD602ARL	2PD1820AR (-Q)			
		170	340	140 - 180	2PD602ASL (-Q)	2PD1820AS (-Q)			
60	500	50	-	100		PMSTA05 (-Q)			
80	500	100	-	50	PMBTA06 (-Q)	PMSTA06 (-Q)			
80	500	100	250	100	BC816-16 (-Q)	BC816-16W (-Q)			
		160	400	100	BC816-25 (-Q)	BC816-25W (-Q)			
45	800	100	250	100	BCW66F				
		160	400	100	BCW66G				
		250	630	100	BCW66H				

Small signal transistors single PNP

Package					Automotive-qualified				
					SOT23	SOT323 (SC-70)	DFN1412D-3 (SOT8009)	DFN1110D-3 (SOT8015)	DFN1006-3 (SOT883)
					Leaded SMD		DFN		
									
Size (mm)					2.9 x 1.3 x 1.0	2.0 x 1.25 x 0.95	1.4 x 1.2 x 0.47	1.1 x 1.0 x 0.47	1.0 x 0.6 x 0.5
P _{tot} (mW)					250	200	360	340	250
V _{CEO} (V)	I _C (mA)	h _{FE} min/typ	h _{FE} max	f _T min (MHz)					
30	100	125 - 220	500 - 800	100	BC858B (-Q)	BC858BW (-Q)			
32	100	120	260	100	BCW29				
		215	500	100	BCW30				
		180	310	100	BCW61B				
		250	460	100	BCW61C				
		380	630	100	BCW61D				
45	100	210	340	70	2PB709ART (-Q)				
		210	340	70	2PB709ARL (-Q)	2PB709ARW			
		290	460	70	2PB709ASL (-Q)	2PB709ASW			
		180	310	100	BCX71H (-Q)				
		250	460	100	BCX71J (-Q)				
		380	630	100	BCX71K (-Q)				
		120	260	100	BCW69				
		215	500	100	BCW70				
		125	800	100	BC857 (-Q)	BC857W (-Q)			
		125	250	100	BC857A (-Q)	BC857AW (-Q)	BC857AQC (-Q)	BC857AQB (-Q)	BC857AM (-Q)
		220	475	100	BC857B (-Q)	BC857BW (-Q)	BC857BQC (-Q)	BC857BQB (-Q)	BC857BM (-Q)
		420	800	100	BC857C (-Q)	BC857CW (-Q)	BC857CQC (-Q)	BC857CQB (-Q)	BC857CM (-Q)
60	100	120	260	150	BCW89				
65	100	125	475	100	BC856 (-Q)				
		125	250	100	BC856A (-Q)	BC856AW (-Q)	BC856AQC (-Q)	BC856AQB (-Q)	
		220	475	100	BC856B (-Q)	BC856BW	BC856BQC (-Q)	BC856BQB (-Q)	BC856BM (-Q)
100	100	30	-	100	BSS63 (-Q)				
50	150	120	270	100		2PA1576Q (-Q)			2PA1774QM (-Q)
		180	390	100		2PA1576R (-Q)			2PA1774RM (-Q)
		270	560	100		2PA1576S (-Q)			2PA1774SM (-Q)
	200	200	340	100	2PB709BRL (-Q)				
		290	460	100	2PB709BSL				
25	500	100	600	80	BCX18				
45	500	100	600	80	BC807 (-Q)	BC807W (-Q)			
		100	250	80	BC807-16 (-Q)	BC807-16W (-Q)	BC807-16QC (-Q)	BC807-16QB (-Q)	
		160	400	80	BC807-25 (-Q)	BC807-25W (-Q)	BC807-25QC (-Q)	BC807-25QB (-Q)	
		250	600	80	BC807-40 (-Q)	BC807-40W (-Q)	BC807-40QC (-Q)	BC807-40QB (-Q)	
		100	600	80	BCX17 (-Q)				
50	500	40	240	100 - 40	2PB710ARL (-Q)				
		40	240	100 - 40	2PB710ASL (-Q)				
		100	-	100 - 40		2PB1219AQ			
		120	-	100 - 40		2PB1219AR			
		140	-	100 - 40		2PB1219AS			
60	500	100	-	50		PMSTA55 (-Q)			
80	500	100	-	50	PMBTA06 (-Q)	PMSTA06 (-Q)			
80	500	100	250	80	BC806-16 (-Q)	BC806-16W (-Q)			
		160	400	80	BC806-25 (-Q)	BC806-25W (-Q)			
45	800	100	250	80	BCW68F				
			400	80	BCW68G				
		250	600	80	BCW68H				

High performance transistors (superior power dissipation)

							Automotive-qualified
Package							SOT23
							
Size (mm)							2.9 x 1.3 x 1.0
P _{tot} (mW)							775
Polarity	V _{CEO} (V)	V _{ebo} (V)	I _C (mA)	h _{FE} min	h _{FE} max	f _T min (MHz)	
NPN	45	5	0.5	100	250	100	BC817K-16
				160	400	100	BC817K-25
				250	600	100	BC817K-40
PNP	45	5	0.5	100	250	80	BC807K-16
				160	400	80	BC807K-25
				250	600	80	BC807K-40

Small signal transistors double

						Automotive-qualified			
Package						SOT457 (SC-74)	SOT363 (SC-88)	DFN1412-6 (SOT1268)	DFN1010B-6 (SOT1216)
									
Size (mm)						2.9 x 1.5 x 1.0	2.0 x 1.25 x 0.95	1.4 x 1.2 x 0.5	1.0 x 1.0 x 0.37
P _{tot} (mW)						750	300	480	350
Polarity	V _{CEO} (V)	I _C (mA)	h _{FE} min	h _{FE} max	f _T min (MHz)				
NPN	40	100	120	450	100		PUMX1 (-Q)		
	45	100	200	450	100	BC847DS (-Q)	BC847BS (-Q)	BC847RA	BC847QAS
	65	100	110	-	100		BC846S (-Q)		
			200	450	100	BC846DS (-Q)	BC846BS (-Q)		
	50	150	120	560	100		PUMX2 (-Q)		
PNP	45	500	160	400	80	BC817DS (-Q)		BC817RA	
	40	100	120	450	100	PIMT1 (-Q)	PUMT1 (-Q)		
	45	100	200	450	100		BC857BS (-Q)	BC857RA	BC857QAS
	65	100	110	-	100		BC856S (-Q)		
			200	450	100		BC856BS (-Q)		
NPN / PNP	45	500	160	400	80	BC807DS (-Q)		BC807RA	
	40	100	120	450	100		PUMZ1 (-Q)		
	45	100	200	450	100		BC847BPN (-Q)	BC847RAPN	BC847QAPN
	50	100	120	560	100	PIMZ2 (-Q)	PUMZ2 (-Q)		
	65	100	200	450	100		BC846BPN (-Q)		
	45	500	160	160	100 / 800	BC817DPN (-Q)		BC817RAPN	

Small signal switching transistors single

Package							SOT223 (SC-73)	SOT89 (SC-62)	SOT23	SOT323 (SC-70)	DFN1006-3 (SOT883)	DFN1010D-3 (SOT1215)
Size (mm)							6.5 x 3.5 x 1.65	4.5 x 2.5 x 1.5	2.9 x 1.3 x 1.0	2.0 x 1.25 x 0.95	1.0 x 0.6 x 0.5	1.1 x 1.0 x 0.37
P _{tot} (mW)							1700	1300	250	200	250	440
Polarity	V _{CEO} (V)	I _C (mA)	h _{FE} min	h _{FE} max	f _T min (MHz)	t _{off} (ns)						
NPN	40	200	100	300	300	250			PMBS3904 (-Q)			
					180	1200				PMSS3904		
	15	200	40	120	500	20			PMBT2369 (-Q)	PMST2369 (-Q)		
	40	200	100	300	300	250			MMBT3904 (-Q)			
									PMBT3904 (-Q)	PMST3904 (-Q)	PMBT3904M (-Q)	PMBT3904QA
	30	600	100	300	250	250			PMBT2222 (-Q)	PMST2222 (-Q)		
	40	600	100	300	250	250	PZT4401	PXT4401	PMBT4401 (-Q)	PMST4401 (-Q)		
					300	250			MMBT2222A (-Q)			
					340 ¹⁾		PZT2222A	PXT2222A	PMBT2222A (-Q)	PMST2222A (-Q)		
	40	800	100	300	300	250					PMBT2222AM (-Q)	PMBT2222AQA
PNP	40	100	100	300	150	700			BSR14 (-Q)			
	40	200	100	300	250	300			PMBS3906 (-Q)	PMSS3906		
									MMBT3906 (-Q)			
									PMBT3906 (-Q)	PMST3906 (-Q)	PMBT3906M (-Q)	
	40	600	100	300	200	350	PZT4403	PXT4403	PMBT4403 (-Q)	PMST4403 (-Q)		
					365				PMBT2907 (-Q)			
					300					PMST2907A (-Q)		
	60	600	100	300	200	365			BSR16 (-Q)			
					210 ¹⁾		PZT2907A	PXT2907A	PMBT2907A (-Q)			
											PMBT2907AM (-Q)	PMBT2907AQA

¹⁾ f_T Typ

Small signal switching transistors double

Types in **bold** represent new products

Package							SOT363 (SC-88)	SOT457 (SC-74)	DFN1412-6 (SOT1268)
Size (mm)							2.0 x 1.25 x 0.95	2.9 x 1.5 x 1.0	1.4 x 1.2 x 0.5
P _{tot} (mW)							300	750	480
Polarity	V _{CEO} (V)	I _C (mA)	h _{FE} min	h _{FE} max	f _T min (MHz)	t _{off} (ns)			
NPN	40	200	100	300	300	250	PMBT3904YS (-Q)		PMBT3904RA
	40	600	100	300	250	250	PMBT4401YS (-Q)		
					300	250	PMBT2222AYS (-Q)		
PNP	40	200	100	300	250	300	PMBT3906YS (-Q)		
	40	600	100	300	200	350	PMBT4403YS (-Q)		
	60	600	100	300	200	365	PMBT2907AYS (-Q)		
NPN / PNP	40	200	100	300	300 / 250	250 / 300	PMBT3946YPN (-Q)		
	40 / 60	600	100	300	300 / 200	250 / 365		NMB2227A	
	40 / 60	600	100	300	300 / 200	250 / 365	PMBT2227AYS-Q		

General purpose bipolar transistors

175 °C capable products

Types in **bold** represent new products

									Automotive-qualified				
Package									SOT223 (SC-73)	SOT23			SOT363 (SC-88)
													
Size (mm)									6.5 x 3.5 x 1.65	2.9 x 1.3 x 1.0			2.0 x 1.25 x 0.95
P _{tot} (mW)									1700	415	950	675	300
Polarity	V _{CEO} (V)	V _{EBO} (V)	I _C (A)	h _{FE} min	h _{FE} max	f _T min (MHz)	hFE1/hFE2	VBE1 - VBE2 (mV)					
NPN	45	6	0.1	200	450	100	0.9 ¹⁾	2					BCM847BSH-Q
		7	0.5	100	250	250					BC817K-16H (-Q)		
				160	400	400					BC817K-25H (-Q)		
				250	600	600					BC817K-40H (-Q)		
	65	6	0.1	110	-								BC846SH-Q
				200	450	100	0.9	2					BC847BSH-Q
													BC846BSH-Q
													BCM846BSH-Q
	80	7	1	63	250	100			BCP56H (-Q)				
				160	100	100			BCP56-10H (-Q)				
				100	250	100			BCP56-16H (-Q)				
		0.5		100	250	100				BC816-16H (-Q)			
PNP	45	5	0.1	200	450	100	0.9 ¹⁾	2					BCM857BSH-Q
		7	0.5	100	250	80						BC807-16H (-Q)	
				160	400	80						BC807-25H (-Q)	
				250	600	80						BC807-40H (-Q)	
	65	5	0.1	110	-	100							BC856SH-Q
		6		200	450	100	0.9	2					BC857BSH-Q
													BC856BSH-Q
													BCM856BSH-Q
	80	7	1	63	250	100			BCP53H (-Q)				
				100	100	100			BCP53-10H (-Q)				
				100	250	100			BCP53-16H (-Q)				
		0.5		100	250	80				BC806-16H (-Q)			
NPN/PNP	45	7	0.1	200	450	100							BC847BPNH-Q
	65	6											BC846BPNH-Q
	50	5		-									PUMD6H-Q
NPN/PNP	50	5	0.1	200	-		only R1 (4.7kΩ)						PUMH7H-Q
PNP/PNP													PUMB3H-Q

¹⁾ IC1 / IE2

Power transistors

Types in **bold** represent new products

							Automotive-qualified			
Package							SOT223 (SC-73)	SOT89 (SC-62)	DFN2020-3 (SOT1061)	DFN2020D-3 (SOT1061D)
										
Size (mm)							6.5 x 3.5 x 1.65	4.5 x 2.5 x 1.5	2.0 x 2.0 x 0.62	2.0 x 2.0 x 0.62
P _{tot} (mW)							1700	1300	1300	1300
Polarity	V _{CEO} (V)	I _C (A)	h _{FE} min	h _{FE} max	f _T min (MHz)					
NPN	20	2	85 - 160	375	40		BCP68 (-Q) / -25 (-Q)	BC868 (-Q) / -25 (-Q)	BC68PA (-Q) / BC68-25PA (-Q)	BC68PAS (-Q) / BC68-25PAS (-Q)
	45	1	63 - 100	160 - 250	100		BCP54 (-Q) / -10 (-Q) / -16 (-Q) BCP54T (-Q) / -10T (-Q) / -16T (-Q)	BCX54 (-Q) / -10 (-Q) / -16 (-Q) BCX54T / -10T / -16T	BC54PA (-Q) / BC54-10PA (-Q) / BC54-16PA (-Q)	BC54PAS (-Q) / BC54-10PAS (-Q) / BC54-16PAS (-Q)
	60	1	63 - 100	160 - 250	100		BCP55 (-Q) / -10 (-Q) / -16 (-Q) BCP55T (-Q) / -10T (-Q) / -16T (-Q)	BCX55 (-Q) / -10 (-Q) / -16 (-Q) BCX55T / -10T / -16T	BC55PA (-Q) / BC55-10PA (-Q) / BC55-16PA (-Q)	BC55PAS (-Q) / BC55-10PAS (-Q) / BC55-16PAS (-Q)
			100	300	100		BSP41 (-Q)	BSR41 (-Q)		
	80	1	63 - 100	160 - 250	100		BCP56 (-Q) / -10 (-Q) BCP56T (-Q) / -10T (-Q) / -16T (-Q)	BCX56 / -10 / -16 BCX56T / -10T / -16T	BC56PA (-Q) / BC56-10PA (-Q) / BC56-16PA (-Q)	BC56PAS (-Q) / BC56-10PAS (-Q) / BC56-16PAS (-Q)
			40 - 100	120 - 300	100		BSP43 (-Q)	BSR43 (-Q)		BC56PAST (-Q) / BC56-10PAST (-Q) / BC56-16PAST (-Q)
	20	2	85 - 160	250 - 375	40		BCP69 / -16 / -25 (-Q)	BC869 / -16 (-Q) / -25	BC69PA (-Q) / BC69-16PA (-Q) / BC69-25PA (-Q)	BC69PAS (-Q) / BC569-16PAS (-Q) / BC69-25PAS (-Q)
	45	1	63 - 100	160 - 250	115 ¹⁾ - 145 ¹⁾		BCP51 / -10 / -16 BCP51T (-Q) / -10T (-Q) / -16T (-Q)	BCX51 / -10 / -16 BCX51T / -10T / -16T	BC51PA (-Q) / BC51-10PA / BC51-16PA	BC51PAS (-Q) / BC51-10PAS (-Q) / BC51-16PAS (-Q)
PNP	60	1	63 - 100	160 - 250	100		BCP52 / -10 / -16 BCP52T (-Q) / -10T (-Q) / -16T (-Q)	BCX52 / -10 / -16 BCX52T / -10T / -16T	BC52PA (-Q) / BC52-10PA (-Q) / BC52-16PA (-Q)	BC52PAS (-Q) / BC52-10PAS (-Q) / BC52-16PAS (-Q)
			40 - 100	120 - 300	100		BSP31 (-Q)	BSR30 (-Q) / 31 (-Q)		
	80	1	63 - 100	160 - 250	115 ¹⁾ - 145 ¹⁾		BCP53 / -10 / -16 BCP53T / -10T / -16T	BCX53 / -10 / -16 BCX53T / -10T / -16T	BC53PA (-Q) / BC53-10PA (-Q) / BC53-16PA (-Q)	BC53PAS (-Q) / BC53-10PAS (-Q) / BC53-16PAS (-Q)
			40 - 100	120 - 300	100		BSP32 / 33	BSR33 (-Q)		BC53PAST (-Q) / BC53-10PAST (-Q) / BC53-16PAST (-Q)

¹⁾ Typical value

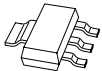
General purpose power transistors

Types in **bold** represent new products

Package									DPAK (SOT428C)	
Size (mm)										
P _{tot} (mW)									6.1 x 6.6	6.8 x 4.3
P _{tot} (mW)									1750	2150
V _{CEO} (V)	I _C (A)	h _{FE} min	h _{FE} max	@ I _C (A)	@V _{CE} (V)	f _T min MHz	Polarity	Automotive-qualified		
45	4	85	375	0,5	1	3	NPN	Yes	MJD148(-Q)	
50	2	120	360	0,5	2	65	NPN	Yes	MJD2873(-Q)	MJPE2873(-Q)
80	8	60	-	2	1	typ: 160	NPN	No	MJD44H11	MJPE44H11
								Yes	MJD45H11	MJPE44H11-Q
				2	1	typ: 80	PNP	No	MJD44H11A	MJPE45H11
								Yes	MJD45H11A	MJPE45H11-Q
100	3	25	-	1	4	3	NPN	No	MJD31C	MJPE31C
							NPN	Yes	MJD32C	MJPE31C-Q
		120	-	0,02	60		NPN	Yes	MJD31CA	MJPE31CH(-Q)*
		25	-	1	4		PNP	No	MJD31CH-Q*	MJPE32C
	6	30	-	0,3	4		PNP	Yes	MJD32CA	MJPE32C-Q
							NPN	Yes	MJD41C(-Q)	
							PNP	Yes	MJD42C(-Q)	

* high gain version

General purpose high voltage transistors

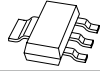
Package						Automotive-qualified				
Size (mm)						SOT223 (SC-73)	SOT89 (SC-62)	SOT457 (SC-74)	SOT23	SOT323 (SC-70)
P _{tot} (mW)										
Polarity	V _{CEO} (V)	I _C (mA)	h _{FE} min	h _{FE} max	f _T min (MHz)					
NPN	140	300	60	250	100				PMBT5550 (-Q)	PMST5550 (-Q)
	160	300	80	250	100				PMBT5551 (-Q) / BSR19A(-Q)	PMST5551 (-Q)
	250	100	50		60	BF722 (-Q)	BF622 (-Q)		BF822(-Q)	
	300	100	50		60	BF720 (-Q)	BF620 (-Q)		BF820(-Q)	BF820W (-Q)
			40		50	PZTA42 (-Q)	PXTA42 (-Q)		PMBTA42 MMBTA42 (-Q)	PMSTA42 (-Q)
	350	100	40		70	BSP19 (-Q)	BST39 (-Q)			
PNP	400	300	50	200	20	PZTA44(-Q)			PMBTA44 (-Q)	
	100	100	30		50				BSS63 (-Q)	
	250	100	50		60	BF723 (-Q)				
			50		60		BF623 (-Q)		BF823 (-Q)	
	300	100	50		60		BF621 (-Q)		BF821 (-Q)	
			40		50	PZTA92 (-Q)	PXTA92 (-Q)		PMBTA92(-Q)	PMSTA92 (-Q)
2 x NPN	300	100	40		50			PMBTA42DS (-Q)		

For high-voltage transistors with increased performance please refer to our high-voltage low V_{CEsat} transistor portfolio on page 38.

PNP LED driver

			Automotive-qualified	
Package			SOT457	SOT23
Size (mm)				
P _{tot} (mW)			2.9 x 1.5 x 1.0	2.9 x 1.3 x 1.0
Maximum supply voltage V _s max (V)			750	480
Typical stabilized output current I _{out} typ (mA)			Maximum stabilized output current I _{out} max (mA)	
18	10	-		NCR401T
	20	-		NCR402T
40	10	65	NCR401U	
	20	65	NCR402U	
	50	65	NCR405U	

NPN LED driver

				Automotive-qualified		
Package				SOT457 (SC-74)	SOT223 (SC-73)	DFN2020D-6 (SOT1118D)
Size (mm)						
P _{tot} (mW)				2.9 x 1.5 x 1.0	6.5 x 3.5 x 1.65	2 x 2 x 0.62
Maximum supply voltage V _s max (V)				750	1250	530
Maximum supply voltage V _s max (V)	Maximum Enable voltage V _{EN} max (V)	Typical stabilized output current I _{out} typ (mA)	Maximum stabilized output current I _{out} max (mA)			
16	25	10	250	NCR320U		
	4.5			NCR321U		
40	40	10	150	NCR420U		
	4.5			NCR421U		
16	25	10	250		NCR320Z	
	4.5				NCR321Z	
40	40	10	150		NCR420Z	
	4.5				NCR421Z	
16	25	10	250			NCR320PAS
	4.5					NCR321PAS
40	40	10	150			NCR420PAS
	4.5					NCR421PAS

Constant current source

Automotive-qualified					
SOT353 (SC-88A)					
					
Size (mm)					
2.0 x 1.25 x 0.95					
P _{tot} (mW)					
335					
Type					
PSSI2021SAY					
Description	Maximum supply voltage	Maximum supply current	Typical stabilized output current	Minimum stabilized output current	Maximum stabilized output current
Parameter	V _s max (V)	I _s max (mA)	I _{out} typ (μA)	I _{out} min (mA)	I _{out} max (mA)
Value	75	2.2	15	0.015	50

Darlington transistors

Package					Automotive-qualified		
					SOT223 (SC-73)	SOT89 (SC-62)	SOT23
							
Size (mm)					6.5 x 3.5 x 1.65	4.5 x 2.5 x 1.5	2.9 x 1.3 x 1.0
P _{tot} (mW)					1700	1300	250
Polarity	V _{CEO} (V)	I _C (mA)	h _{FE} min	f _r min (MHz)			
NPN	30	500	10000	125			PMBTA13 (-Q)
			20000		PZTA14 (-Q)	PXTA14	PMBTA14
				220		BCV29	BCV27 (-Q)
	45	1000	2000	200	BSP50 (-Q)	BST50 (-Q)	
			10000	220		BCV49 (-Q)	BCV47 (-Q)
	60	500	2000	200	BSP51 (-Q)	BST51 (-Q)	
			10000	220	BSP52 (-Q)	BST52 (-Q)	
PNP	30	500	20000	125			PMBTA64
				220		BCV28	BCV26 (-Q)
			2000	200	BSP60 (-Q)	BST60 (-Q)	
			10000	220		BCV48 (-Q)	BCV46 (-Q)
	60	500	2000	200	BSP61 (-Q)	BST61 (-Q)	
			10000	220			
	80	1000	2000	200	BSP62 (-Q)	BST62 (-Q)	

Schmitt-triggers

Package							Automotive-qualified
							SOT143B
							
Size (mm)							2.9 x 1.3 x 1.0
P _{tot} (mW)							250
Polarity	V _{CEO} (V) TR1	V _{CEO} (V) TR2	I _C (mA)	h _{FE} min	h _{FE} max	V _{CEsat} typ (mV)	
NPN	30	6	100	110	800	250	BCV63 / B
PNP	30	6	100	220	475	250	BCV64B

Low noise transistors

Package							Automotive-qualified	
							SOT23	SOT323 (SC-70)
								
Size (mm)							2.9 x 1.3 x 1.0	2.0 x 1.25 x 0.95
P _{tot} (mW)							250	200
Polarity	V _{CEO} (V)	I _C (mA)	Noise figure max (dB)	h _{FE} min	h _{FE} max	f _r min (MHz)		
NPN	30	100	4	200	450	100	BC849B	BC849BW
				420	800	100	BC849C	BC849CW
	45	100	4	200	450	100	BC850B	BC850BW
				420	800	100	BC850C	BC850CW
PNP	30	100	4	220	475	100	BC859B	BC859BW
				420	800	100	BC859C	BC859CW
	45	100	4	220	475	100	BC860B	BC860BW
				420	800	100	BC860C	BC860CW

Matched pair transistors - part 1

Package							Automotive-qualified		
							SOT143B	SOT457 (SC-74)	LFPAK56D (SOT1205)
Size (mm)							2.9 x 1.3 x 1.0	2.9 x 1.5 x 1.0	5 x 6 x 1.1
P _{tot} (mW)							250	750	1250
Polarity	V _{CEO} (V)	I _C (mA)	h _{FE} min	h _{FE} max	h _{FE1} /h _{FE2}	V _{BE1} - V _{BE2} (mV)			
NPN	30	100	110	800	0.7 ¹⁾	n.a.	BCV61/A/B/C		
	45	100	200	450	0.9 ¹⁾	n.a.	BCM61B		
						2		BCM847DS	
	80	1000	63	250	0.95	n.a.		BCM56DS	
	100	3000	150	-	0.95	n.a.			PHPT610035NK
Configuration									
PNP	30	100	100	800	0.7 ¹⁾	n.a.	BCV62/A/B/C		
	45	100	200	450	0.9 ¹⁾	n.a.	BCM62B		
						2		BCM857DS	
	65	100	200	450	0.9	2		BCM856DS	
	80	1000	63	250	0.95	n.a.		BCM53DS	
	100	3000	150	-	0.9	n.a.			PHPT610035PK
Configuration									

¹⁾ I_{C1} / I_{E2}

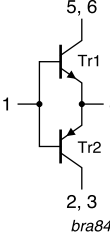
Matched pair transistors - part 2

Types in **bold** represent new products

Package							Automotive-qualified		
							SOT353 (SC-88A)	SOT363 (SC-88)	SOT1216 (DFN1010B-6)
Size (mm)							2.0 x 1.25 x 0.95	2.0 x 1.25 x 0.95	1.1 x 1.0 x 0.37
P _{tot} (mW)							300	300	350
Polarity	V _{CEO} (V)	I _C (mA)	h _{FE} min	h _{FE} max	h _{FE1} /h _{FE2}	V _{BE1} - V _{BE2} (mV)			
NPN	45	100	200	450	0.9 ¹⁾	2		BCM847BS	
					0.95	2	PMP4501G	PMP4501Y	BCM847QAS
					0.98	2	PMP4201G	PMP4201Y	PMP4501QAS
	65	100	200	450	0.9	2		BCM846BS	
	Configuration								
	40	200	100	300	0.98	2		PMP3906AYS-Q	
PNP	45	100	200	450	0.9 ¹⁾	2		BCM857BS	
					0.95	2	PMP5501G	PMP5501Y	BCM857QAS
					0.98	2	PMP5201G	PMP5201Y	PMP5501QAS
	65	100	200	450	0.9	2		BCM856BS	
	Configuration								

¹⁾ I_{C1} / I_{E2}

MOSFET driver

			Automotive-qualified			
V_{CE0} (V)	I_C (A)	I_{cm} [A]	Type	Package	Remark	Configuration
30	0.1	0.2	BCV65	 SOT143B	General-purpose transistors	
40	0.6	1	PMD2001D	 SOT457	Switching transistors with reduced storage time	
	1	2	PMD3001D		Low V_{CEsat}	

Medium frequency transistors

						Automotive-qualified	
Package						SOT23	SOT323 (SC-70)
Size (mm)							
P_{tot} (mW)						250	200
Polarity	V_{CE0} (V)	I_C (mA)	h_{FE} min	h_{FE} max	f_T typ (MHz)		
NPN	15	100	40	-	500	BF570	
	20	25		85	>275	BFS20	BFS20W
		30	65	225	260	BFS19	
	40	25	67	220	380	BF840	
PNP	30	25	25	50	250	BF824	BF824W
	40		50	-	>325	BF550	

Low V_{CEsat} transistors single NPN up to 2000 mW

Types in **bold** represent new products

Package							Automotive-qualified				
							SOT223 (SC-73)	SOT89 (SC-62)	SOT457 (SC-74)	DFN2020D-3 (SOT1061D)	DFN2020-3 (SOT1061)
Size (mm)							6.5 x 3.5 x 1.65	4.5 x 2.5 x 1.5	2.9 x 1.5 x 1.0	2.0 x 2.0 x 0.62	2.0 x 2.0 x 0.62
P_{tot} (mW)							1700	1650	750	1300	1300
V_{CE0} (V)	I_C (A)	I_{CM} (A)	h_{FE} min/typ	@ I_C (A)	@ V_{CE} (V)	V_{CEsat} typ (mV); $I_C = 0.5$ A; $I_B = 0.05$ A					
10	3	5	325 / -	0.5	2	25 (max value)				PBSS4310PAS-Q	
12	5.3	10.6	300 / 530	0.5	2	18		PBSS301NX (-Q)			
	5.8	11.6	300 / 530	0.5	2	18	PBSS301NZ				
20	3	5	220 / 390	0.5	2	40		PBSS4320X			
	4	15	300 / 450	0.5	2	30			PBSS301ND PBSS4420D (-Q)		
	5	10	300 / 450	0.5	2	35		PBSS4520X (-Q)			
	5.3	10.6	300 / 570	0.5	2	20		PBSS302NX (-Q)			
	5.8	10.2	300 / 570	0.5	2	20	PBSS302NZ (-Q)				
	6	7	280 / 440	0.5	2	20					PBSS4620PA (-Q)
	7	15	300 / 550	0.5	2	12		PBSS4021NX			
	8	20	300 / 550	0.5	2	9	PBSS4021NZ (-Q)				
30	3	5	300 / 490	0.5	2	45		PBSS4330X			
	3	5	300 / 465	0.5	2	40				PBSS4330PAS (-Q) ²⁾	PBSS4330PA
	3.5	6	300 / 500	0.5	2	70			PBSS4032ND ³⁾		
	4.7	10	300 / 500	0.5	2	57		PBSS4032NX ³⁾			
	5.1	10.2	300 / 480	0.5	2	20		PBSS303NX (-Q)			
	5.4	10	300 / 500	0.5	2	57	PBSS4032NZ ³⁾				
	5.5	11	300 / 480	0.5	2	20	PBSS303NZ				
	6	7	280 / 450	0.5	2	21					PBSS4630PA
40	2	3	300 / -	0.5	5	140		PBSS4240X			
	4	15	300 / 520	0.5	2	35			PBSS302ND (-Q)		
		10	300 / 500	0.5	2	21		PBSS4540X (-Q)			
	5	10	300 / 500	0.5	2	25	PBSS4540Z (-Q)				
50	2	5	300 / -	0.5	2	90 ²⁾		PBSS4250X			
	3	5	200 / 280	0.5	2	65			PBSS4350D (-Q)		
			300 / 460	0.5	2	50		PBSS4350X		PBSS4350PAS (-Q)	
			200 / 280	0.5	2	60 ¹⁾	PBSS4350Z (-Q)				
60	1	2	170 / -	0.5	10	200 ²⁾		PBSS4160X (-Q)			
	3	6	200 / 360	0.5	5	45				PBSS4360PAS (-Q) ²⁾	
			200 / -	0.5	5	45	PBSS4360Z (-Q)	PBSS4360X (-Q)			
			345 / 570	0.5	2	40			PBSS303ND		
	4.7	9.4	300 / 520	0.5	2	25		PBSS304NX (-Q)			
	5.2	10.4	300 / 520	0.5	2	25	PBSS304NZ				
	6	7	280 / 440	0.5	2	22					PBSS4560PA
	6.2	15	300 / 500	0.5	2	17		PBSS4041NX			
80	7	15	300 / 500	0.5	2	13	PBSS4041NZ (-Q)				
	3	6	240 / 360	0.5	2	40			PBSS304ND		
	4	10	250 / 400	0.5	2	25		PBSS4480X (-Q)			
	4.6	9.2	300 / 470	0.5	2	25		PBSS305NX (-Q)			
	5.1	10.2	300 / 470	0.5	2	25	PBSS305NZ				
100	1	3	150 / 290	0.25	10	75			PBSS8110D		PBSS4580PA
			150 / 290	0.25	10	73		PBSS8110X			
			150 / 290	0.25	10	73	PBSS8110Z (-Q)				
	3	4	170 / 275	0.5	2	45			PBSS305ND		
	4.5	9	200 / 330	0.5	2	27		PBSS306NX (-Q)			
	5.1	10.2	200 / 330	0.5	2	27	PBSS306NZ				
	5.2	6	180 / 285	0.5	2	30					PBSS8510PA

¹⁾ $I_C / I_B = 20$ ²⁾ V_{CEsat} (max) ³⁾ Optimized for high-speed switching

²⁾ 175°C capable

Low V_{CEsat} transistors single NPN up to 750 mW

Package							Automotive-qualified				
							SOT23	SOT323 (SC-70)	SOT363 (SC-88)	DFN1006B-3 (SOT883B)	DFN1010D-3 (SOT1215)
Size (mm)											
P_{tot} (mW)							480	350	430	250	750
V_{CE0} (V)	I_C (A)	I_{CM} (A)	h_{FE} min/typ	@ I_C (A)	@ V_{CE} (V)	V_{CEsat} typ (mV); $I_C = 0.5$ A; $I_B = 0.05$ A					
15	0.5	1	200 / 325	0.01	2	-				PBSS2515MB	
20	1	3	350 / 470	0.1	2	110 ²⁾	PBSS4120T (-Q)				
	2	5	220 / 330	0.1	2	45	PBSS4320T (-Q)				
	4.3	8	300 / 550	0.5	2	21	PBSS4021NT (-Q)				
30	1	1.5	230 / 380	0.5	2	90					PBSS4130QA (-Q)
		3	300 / 450	0.5	2	120 ²⁾	PBSS4130T (-Q)				
	2	3	300 / 450	0.5	2	70	PBSS4230T (-Q)				
			230 / 380	0.5	2	75					PBSS4230QA (-Q)
	2.6	5	300 / 500	0.5	2	80	PBSS4032NT ³⁾				
40	0.5	1	200 / 550	0.01	2	200 ²⁾				PBSS2540MB (-Q)	
	1	2	300 / 440	0.5	5	130		PBSS4140U (-Q)			
			300 / 510	0.5	5	120	PMMT491A				
			300 / 420	0.5	5	130	PBSS4140T (-Q)				
	2	3	350 / 470	0.1	2	70			PBSS4240Y		
			300 / 450	0.5	2	70	PBSS4240T (-Q)				
50	2	5	300 / 495	0.5	2	60	PBSS4350T (-Q)				
60	1	1.5	150 / 240	0.5	2	90					PBSS4160QA (-Q)
		2	200 / 420	0.5	5	120		PBSS4160U (-Q)			
			200 / 350	0.5	5	110	PBSS4160T (-Q)				
	2	3	150 / 240	0.5	2	75					PBSS4260QA (-Q)
	3.8	8	300 / 500	0.5	2	29	PBSS4041NT (-Q)				
100	1	3	150 / 400	0.25	10	80			PBSS8110Y		
			150 / 300	0.25	10	70	PBSS8110T (-Q)				

¹⁾ $I_C / I_B = 20$ ²⁾ V_{CEsat} (max) ³⁾ Optimized for high-speed switching

Low V_{CEsat} transistors single PNP up to 2000 mW

Types in **bold** represent new products

Package							Automotive-qualified				
							SOT223 (SC-73)	SOT89 (SC-62)	SOT457 (SC-74)	DFN2020D-3 (SOT1061D)	DFN2020-3 (SOT1061)
											
Size (mm)							6.5 x 3.5 x 1.65	4.5 x 2.5 x 1.5	2.9 x 1.5 x 1.0	2.0 x 2.0 x 0.62	2.0 x 2.0 x 0.62
P _{tot} (mW)							1700	1650	750	1300	1300
V _{CE0} (V)	I _C (A)	I _{CM} (A)	h _{FE} min/typ	@ I _C (A)	@ V _{CE} (V)	V _{CEsat} typ (mV); I _C = 0.5 A; I _B = 0.05 A					
12	5.3	10.6	250 / 400	0.5	2	20		PBSS301PX (-Q)			
	5.7	11.4	250 / 400	0.5	2	20	PBSS301PZ				
20	3	5	200 / –	0.5	2	80 ²⁾			PBSS5320D		
			220 / 450	0.5	2	50		PBSS5320X			
	4	15	250 / 400	0.5	2	35			PBSS301PD PBSS5420D		
	5	10	300 / 430	0.5	2	45		PBSS5520X (-Q)			
	5.1	10.2	250 / 370	0.5	2	25		PBSS302PX (-Q)			
	5.5	11	250 / 370	0.5	2	25	PBSS302PZ				
	6	7	230 / 345	0.5	2	25				PBSS5620PA	
	6.2	15	250 / 400	0.5	2	18		PBSS4021PX (-Q)			
	6.6	20	250 / 400	0.5	2	16	PBSS4021PZ (-Q)				
	30	2.7	5	200 / 350	0.5	2	87			PBSS4032PD ³⁾	
3		5	200 / 380	0.5	2	50		PBSS5330X			
			200 / 320	0.5	2	45			PBSS5330PAS ²⁾	PBSS5330PA	
4.2		10	200 / 350	0.5	2	70		PBSS4032PX ³⁾			
4.4		10	200 / 350	0.5	2	70	PBSS4032PZ ³⁾				
5.1		10.2	250 / 400	0.5	2	25		PBSS303PX (-Q)			
5.3		10.6	250 / 400	0.5	2	25	PBSS303PZ				
6		7	200 / 335	0.5	2	25				PBSS5630PA	
40	2	3	215 / –	0.5	5	170		PBSS5240X			
	4	15	200 / 310	0.5	2	46			PBSS302PD		
		10	250 / 370	0.5	2	33		PBSS5540X (-Q)			
	5		250 / 350	0.5	2	40 ¹⁾	PBSS5540Z (-Q)				
50	2	5	200 / –	0.5	2	90 ²⁾		PBSS5250X		PBSS5250PAS (-Q)	
	3	5	200 / 300	0.5	2	70			PBSS5350D (-Q)		
			200 / 375	0.5	2	70		PBSS5350X		PBSS5350PAS (-Q)	
			200 / 300	0.5	2	70	PBSS5350Z (-Q)				
60	3	6	130 / 220	0.5	5	55				PBSS5360PAS (-Q) ²⁾	
			130 / –	0.5	5	55	PBSS5360Z (-Q)	PBSS5360X (-Q)			
			180 / 265	0.5	2	55			PBSS303PD (-Q)		
	4.2	8.4	200 / 295	0.5	2	35		PBSS304PX (-Q)			
	4.5	9	200 / 295	0.5	2	35	PBSS304PZ				
	5	6	170 / 260	0.5	2	35				PBSS5560PA	
	5	15	200 / 300	0.5	2	30		PBSS4041PX			
	5.7		200 / 300	0.5	2	22	PBSS4041PZ (-Q)				
80	3	5	155 / 225	0.5	2	55			PBSS304PD		
	180 / 265		0.5	2	40				PBSS5580PA		
	4	10	200 / 300	0.5	2	35		PBSS5480X (-Q)			
		8	200 / 280	0.5	2	36		PBSS305PX (-Q)			
	4.5	9	200 / 280	0.5	2	36	PBSS305PZ				
100	1	3	150 / 350	0.5	5	100			PBSS9110D		
			150 / 350	0.5	5	90		PBSS9110X			
			150 / –	0.5	5	90	PBSS9110Z (-Q)				
	2	3	175 / 275	0.5	2	65			PBSS305PD		
	2.7	4	180 / 295	0.5	2	45				PBSS9410PA	
	3.7	7.4	200 / 300	0.5	2	45		PBSS306PX (-Q)			
	4.1	8.2	200 / 300	0.5	5	45	PBSS306PZ				

¹⁾ $I_C / I_B = 20$ ²⁾ V_{CEsat} (max) ³⁾ Optimized for high-speed switching

²⁾ 175°C capable

Low V_{CEsat} transistors single PNP up to 750 mW

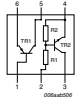
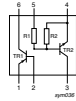
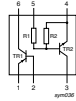
							Automotive-qualified					
Package							SOT23	SOT323 (SC-70)	SOT363 (SC-88)	DFN1006B-3 (SOT883B)	DFN1010D-3 (SOT1215)	
												
Size (mm)							2.9 x 1.3 x 1.0	2.0 x 1.25 x 0.95	2.0 x 1.25 x 0.95	1.0 x 0.6 x 0.37	1.1 x 1.0 x 0.37	
P _{tot} (mW)							480	350	430	250	750	
V _{CE0} (V)	I _C (A)	I _{CM} (A)	h _{FE} min/typ	@ I _C (A)	@ V _{CE} (V)	V _{CEsat} typ (mV); I _C = 0.5 A; I _B = 0.05 A						
15	0.5	1	200 / 260	0.01	2	150				PBSS3515MB		
20	1	2	300 / 450	0.1	2	125 ²⁾	PBSS5120T (-Q)					
	2	3	225 / –	0.5	2	80 ²⁾	PBSS5220T (-Q)					
		5	220 / 420	0.5	2	50	PBSS5320T (-Q)					
	3.5	8	250 / 400	0.5	2	35	PBSS4021PT (-Q)					
30	1	3	260 / 350	0.5	2	110	PBSS5130T (-Q)					
	2	3	300 / 450	0.1	2	70	PBSS5230T (-Q)					
	2.4	5	200 / 320	0.5	2	95	PBSS4032PT ³⁾					
40	0.5	1	200 / 380	0.01	2	220				PBSS3540MB		
	1	2	300 / 520	0.1	5	130		PBSS5140U (-Q)				
			300 / 800	0.1	5	130	PMMT591A					
			300 / 510	0.1	5	130	PBSS5140T (-Q)					
	2	3	300 / –	0.1	2	110 ²⁾			PBSS5240Y			
			300 / 450	0.1	2	70	PBSS5240T (-Q)					
50	2	3	200 / –	0.5	2	90 ²⁾	PBSS5250T (-Q)					
							PBSS5250TH (-Q)					
	3	3	200 / –	0.5	2	90 ²⁾	PBSS5350TH (-Q)					
		5	200 / 360	0.5	2	55	PBSS5350T (-Q)					
60	1	1.5	120 / 185	0.5	2	125					PBSS5160QA	
		2	150 / 250	0.5	5	135		PBSS5160U				
			150 / 250	0.5	5	120	PBSS5160T (-Q)					
	1.7	2.5	120 / 185	0.5	2	105					PBSS5260QA (-Q)	
	2.7	8	200 / 300	0.5	2	49	PBSS4041PT (-Q)					
100	1	3	150 / –	0.25	5	93			PBSS9110Y			
			150 / 350	0.5	5	95	PBSS9110T (-Q)					

¹⁾ $I_C / I_B = 20$ ²⁾ V_{CEsat} (max) ³⁾ Optimized for high-speed switching

Low V_{CEsat} transistors double

Package										Automotive-qualified			
										SOT457 (SC-74)	DFN2020-6 (SOT1118)	DFN2020D-6 (SOT1118D)	SOT363 (SC-88)
Size (mm)													
P _{tot} (mW)										750	1300	1300	430
V _{CE0} (V)	I _C (A)	Polarity	h _{FE} min/typ	@ I _C (A)	@ V _{CE} (V)	V _{CEsat} typ (mV); I _C = 0.5 A; I _B = 0.05 A	V _{CEsat} max (mV)	@ I _C (A)	@ I _B (A)				
15	0.5	NPN/PNP	200	0.1	2	-	250	0.5	0.05				PBSS2515YPN (-Q)
20	2	NPN/NPN	230	0.5	2	60	90	0.5	0.05			PBSS4220PANS (-Q)	
	2	PNP/PNP	210	0.5	2	70	110	0.5	0.05			PBSS5220PAPS (-Q)	
30	1	NPN/NPN	210	0.5	2	75	100	0.5	0.05		PBSS4130PAN (-Q)		
		PNP/PNP	170	0.5	2	85	140	0.5	0.05		PBSS5130PAP (-Q)		
		NPN/PNP	210/170	0.5	2	75/85	100/140	0.5	0.05		PBSS4130PANP (-Q)		
	2	NPN/NPN	230	0.5	2	60	80	0.5	0.05		PBSS4230PAN (-Q)		
		PNP/PNP	210	0.5	2	75	110	0.5	0.05		PBSS5230PAP (-Q)		
		NPN/PNP	230/210	0.5	2	60/75	80/100	0.5	0.05		PBSS4230PANP		
40	1	NPN/PNP	300/250	0.5	5	130/150	500	1	0.1	PBSS4140DPN (-Q)			
	2	NPN/PNP	300/250	0.5	5	80/100	400/530	2	0.2	PBSS4240DPN			
55	2	PNP/PNP	140/200	0.5	2	80/120	300/450	2	0.2			PBSS5255PAPS (-Q)	
60	1	2 x NPN	200	0.5	5	115	250	1	0.1	PBSS4160DS (-Q)			
		2 x PNP	150	0.5	5	120	330	1	0.1	PBSS5160DS (-Q)			
		NPN/PNP	200/150	0.5	5	115/120	250/330	1	0.1	PBSS4160DPN			
	1	NPN/NPN	150	0.5	2	90	120	0.5	0.05		PBSS4160PAN (-Q)	PBSS4160PANS (-Q)	
		PNP/PNP	120	0.5	2	125	180	0.5	0.05		PBSS5160PAP (-Q)	PBSS5160PAPS (-Q)	
		NPN/PNP	150/120	0.5	2	90/125	120/180	0.5	0.05		PBSS4160PANP (-Q)	PBSS4160PANPS	
	2	NPN/NPN	210	0.5	2	70	90	0.5	0.05		PBSS4260PAN (-Q)	PBSS4260PANS (-Q)	
		PNP/PNP	140	0.5	2	100	140	0.5	0.05		PBSS5260PAP (-Q)	PBSS5260PAPS (-Q)	
		NPN/PNP	210/140	0.5	2	70/100	90/140	0.5	0.05		PBSS4260PANP (-Q)	PBSS4260PANPS (-Q)	
120	1	NPN/NPN	240	0.1	2	90	120	0.5	0.05		PBSS4112PAN (-Q)		
		PNP/PNP	190	0.1	2	150	220	0.5	0.05		PBSS5112PAP		
		NPN/PNP	240/190	0.1	2	90/150	120/220	0.5	0.05		PBSS4112PANP (-Q)		

Low V_{CEsat} transistors load switches

Package				Automotive-qualified		
				SOT457 (SC-74)		SOT363 (SC-88)
Size (mm)				2.9 x 1.5 x 1.0		2.0 x 1.25 x 0.95
P_{tot} (mW)				750 ¹⁾	600 ¹⁾	300 ²⁾
V_{CE0} (V)	I_C (A)	V_{CEsat} max (mV); $I_C = 0.5$ A; $I_B = 0.05$ A	R1, R2 (k Ω)			
15	0.5	250	2.2			PBLS1501Y
			4.7			PBLS1502Y
			10			PBLS1503Y
			22			PBLS1504Y (-Q)
20	1	150	2.2		PBLS2001D	
			4.7		PBLS2002D	
			10		PBLS2003D	
			22		PBLS2004D	
	1.8	70	2.2	PBLS2021D		
			4.7	PBLS2022D		
			10	PBLS2023D		
			22	PBLS2024D		
40	0.5	350	2.2			PBLS4001Y
			4.7			PBLS4002Y (-Q)
			10			PBLS4003Y (-Q)
			22			PBLS4004Y
			47			PBLS4005Y (-Q)
	1	170	2.2		PBLS4001D	
			4.7		PBLS4002D	
			10		PBLS4003D	
			22		PBLS4004D	
			47		PBLS4005D	
60	1	180	2.2		PBLS6001D	
			4.7		PBLS6002D (-Q)	
			10		PBLS6003D (-Q)	
			22		PBLS6004D	
			47		PBLS6005D	
	1.5	100	2.2	PBLS6021D (-Q)		
			4.7	PBLS6022D (-Q)		
			10	PBLS6023D (-Q)		
			22	PBLS6024D (-Q)		

¹⁾ Device mounted on a ceramic PCB, Al₂O₃, standard footprint²⁾ Device mounted on an FR4 PCB, single-sided copper, tin-plated, and standard footprint

Low V_{CEsat} high voltage transistors

Package					Automotive-qualified			
					SOT223 (SC-73)	SOT89 (SC-62)	DFN1010D-3 (SOT1215)	SOT23
								
Size (mm)					6.5 x 3.5 x 1.65	4.5 x 2.5 x 1.5	1.1 x 1.0 x 0.37	2.9 x 1.3 x 1.0
P _{tot} (mW)					1700	1300	750	250
Polarity	V _{CEO} [max] (V)	I _C (A)	hFE [min]	hFE [max]				
NPN	150	0.5	100				PBHV8515QA	
		1	70	300				PBHV8115TLH (-Q)
			100					PBHV8115T (-Q)
						PBHV8115X (-Q)		
					PBHV8115Z (-Q)			
		2	100		PBHV8215Z (-Q)			
	180	1	100					PBHV8118T (-Q)
	400	0.5	100		PBHV8540Z (-Q)	PBHV8540X (-Q)		PBHV8540T (-Q)
		1	100		PBHV8140Z (-Q)			
	500	0.15	50			PBHV8550X (-Q)		
							PMBTA45 (-Q)	
600	0.1	70		PBHV2160Z (-Q)				
	0.5	70		PBHV8560Z (-Q)				
PNP	140	4	100		PBHV9414Z (-Q)			
	150	0.5	100				PBHV9515QA	
		1	70	300				PBHV9115TLH (-Q)
			100					PBHV9115T (-Q)
						PBHV9115X (-Q)		
					PBHV9115Z (-Q)			
		2	100		PBHV9215Z (-Q)			
	400	0.25	100					PBHV9040T (-Q)
						PBHV9040X (-Q)		
		0.5	100		PBHV9040Z (-Q)			
			140	450	PBHV9540Z (-Q)			
				PBHV9540X (-Q)				
	500	0.15	100					PBHV9050T (-Q)
		0.25	100		PBHV9050Z (-Q)			
	600	0.1	70		PBHV3160Z (-Q)			
0.5		70		PBHV9560Z (-Q)				

Low V_{CEsat} transistors PNP - N-channel MOSFET combination

Package											Automotive-qualified
											DFN2020-6 (SOT1118)
Size (mm)											2.0 x 2.0 x 0.62
P_{tot} (mW)											1300
V_{CE0} (V)	I_C (A)	h_{FE} min	h_{FE} max	@ I_C (mA)	@ V_{CE} (V)	R_{CEsat} typ (mΩ)	V_{DS} (V)	V_{GS} (V)	I_D (A)	R_{DSon} typ (mΩ)	
40	2	300	800	100	5	240	30	0.7	0.66	390	PBSM5240PF
		100	-	100	5	240	30	0.7	0.66	390	PBSM5240PFH

Low V_{CEsat} power transistors single (175 °C capable)

Package								LFPAK56 (SOT669)
Size (mm)								5 x 6 x 1.1
P_{tot} (mW)								1250
V_{CEO} (V)	I_C (A)	I_{CM} [max] (A)	h_{FE} min/typ	@ I_C (A)	@ V_{CE} (V)	Polarity	Automotive-qualified	
40	6	14	230 / 350	0.5	2	NPN	Yes	PHPT60406NY (-Q)
		12	210 / 300	0.5	2	PNP	Yes	PHPT60406PY (-Q)
	10	20	230 / 370	0.5	2	NPN	Yes	PHPT60410NY (-Q)
			240 / 350	0.5	2	PNP	Yes	PHPT60410PY (-Q)
	15	30	250 / 410	0.5	2	NPN	Yes	PHPT60415NY (-Q)
			200 / 340	0.5	2	PNP	Yes	PHPT60415PY (-Q)
60	3	8	200 / 400	0.5	2	NPN	Yes	PHPT60603NY (-Q)
			250 / 250	0.5	2	PNP	Yes	PHPT60603PY (-Q)
	6	14	240 / 390	0.5	2	NPN	Yes	PHPT60606NY (-Q)
			120 / 200	0.5	2	PNP	Yes	PHPT60606PY (-Q)
	10	20	240 / 410	0.5	2	NPN	Yes	PHPT60610NY (-Q)
			120 / 215	0.5	2	PNP	Yes	PHPT60610PY (-Q)
100	2	6	150 / 250	0.5	10	NPN	No	PHPT61002NYC (-Q)
			150 / 220	0.5	10	PNP	No	PHPT61002PYC (-Q)
			120/220	0.5	10	NPN	No	PHPT61002NYCLH (-Q)
		5	100/180	0.5	10	PNP	No	PHPT61002PYCLH (-Q)
	3	8	150 / 250	0.5	10	NPN	Yes	PHPT61003NY (-Q)
			150 / 220	0.5	10	PNP	Yes	PHPT61003PY (-Q)
	6	12	140 / 260	0.5	2	NPN	Yes	PHPT61006NY (-Q)
			170 / 305	0.5	2	PNP	Yes	PHPT61006PY (-Q)
	10	20	150 / 275	0.5	2	NPN	Yes	PHPT61010NY (-Q)
			180 / 330	0.5	2	PNP	Yes	PHPT61010PY (-Q)

Low V_{CEsat} power transistors double (175 °C capable)

Package												Automotive-qualified
LFPAK56D (SOT1205)												
Size (mm)												5 x 6 x 1.1
P _{tot} (mW)												1250
V _{CEO} (V)	I _C (A)	I _{CM} (A)	h _{FE} typ	@ I _C (A)	@ V _{CE} (V)	V _{CEsat} typ (mV); I _C = 0.5 A; I _B = 0.05 A	V _{CEsat} max (mV)	@ I _C (A)	@ I _B (A)	Polarity	h _{FE1} /h _{FE2}	
100	3	6	150	0.5	10	50	300	3	0.2	2XNPN	-	PHPT610030NK (-Q)
			220			70	400	3	0.2	2XPNP	-	PHPT610030PK (-Q)
			250			50 / 70	300 / 400	3	0.2	NPN/PNP	-	PHPT610030NPK (-Q)
			250			50	300	3	0.2	2XNPN	0.95	PHPT610035NK (-Q)
			220				400	3	0.2	2XPNP	0.9	PHPT610035PK (-Q)

Resistor equipped transistors (RETs)

50 V/100 mA single NPN RETs

Types in **bold** represent new products

Package					Automotive-qualified				
					SOT23	SOT323 (SC-70)	DFN1412D-3 (SOT8009)	DFN1110D-3 (SOT8015)	DFN1006-3 (SOT883)
					Leaded SMD		DFN		
Size (mm)									
P _{tot} (mW)					250	200	360	340	250
V _{CE0} (V)	I _C (mA)	Configuration	R1 (kΩ)	R2 (kΩ)	NPN				
50	100	R1 = R2	2.2	2.2	PDTC123ET (-Q)	PDTC123EU (-Q)			PDTC123EM
			4.7	4.7	PDTC143ET (-Q)	PDTC143EU (-Q)	PDTC143EQC (-Q)	PDTC143EQB (-Q)	PDTC143EM
			10	10	PDTC114ET (-Q)	PDTC114EU (-Q)	PDTC114EQC (-Q)	PDTC114EQB (-Q)	PDTC114EM (-Q)
			22	22	PDTC124ET (-Q)	PDTC124EU (-Q)	PDTC124EQC (-Q)	PDTC124EQB (-Q)	PDTC124EM
			47	47	PDTC144ET (-Q)	PDTC144EU (-Q)	PDTC144EQC (-Q)	PDTC144EQB (-Q)	PDTC144EM (-Q)
			100	100	PDTC115ET (-Q)	PDTC115EU (-Q)			PDTC115EM (-Q)
		R1 ≠ R2	2.2	10	PDTC123YT (-Q)	PDTC123YU (-Q)		PDTC123YQB (-Q)	PDTC123YM
			2.2	47	PDTC123JT (-Q)	PDTC123JU (-Q)	PDTC123JQC (-Q)	PDTC123JQB (-Q)	PDTC123JM
			4.7	10	PDTC143XT (-Q)	PDTC143XU (-Q)	PDTC143XQC (-Q)	PDTC143XQB (-Q)	PDTC143XM
			4.7	47	PDTC143ZT (-Q)	PDTC143ZU (-Q)	PDTC143ZQC (-Q)	PDTC143ZQB (-Q)	PDTC143ZM (-Q)
			10	47	PDTC114YT (-Q)	PDTC114YU (-Q)	PDTC114YQC (-Q)	PDTC114YQB (-Q)	PDTC114YM (-Q)
			22	47	PDTC124XT (-Q)	PDTC124XU (-Q)	PDTC124XQC (-Q)	PDTC124XQB (-Q)	PDTC124XM
			47	10	PDTC144VT (-Q)	PDTC144VU (-Q)			PDTC144VM
			47	22	PDTC144WT (-Q)	PDTC144WU (-Q)			PDTC144WM
		Only R1	2.2	-	PDTC123TT (-Q)	PDTC123TU			PDTC123TM
			4.7	-	PDTC143TT (-Q)	PDTC143TU (-Q)			PDTC143TM (-Q)
			10	-	PDTC114TT (-Q)	PDTC114TU (-Q)			PDTC114TM
			22	-	PDTC124TT	PDTC124TU			PDTC124TM
			47	-	PDTC144TT	PDTC144TU (-Q)			PDTC144TM
			100	-	PDTC115TT	PDTC115TU			PDTC115TM

50 V/100 mA single PNP RETs

Types in **bold** represent new products

Package					Automotive-qualified				
					SOT23	SOT323 (SC-70)	DFN1412D-3 (SOT8009)	DFN1110D-3 (SOT8015)	DFN1006-3 (SOT883)
					Leaded SMD		DFN		
Size (mm)									
P _{tot} (mW)					250	200	360	340	250
V _{CEO} (V)	I _C (mA)	Configuration	R1 (kΩ)	R2 (kΩ)	PNP				
50	100	R1 = R2	1	1	PDTA113ET	PDTA113EU			PDTA113EM
			2.2	2.2	PDTA123ET (-Q)	PDTA123EU (-Q)			PDTA123EM
			4.7	4.7	PDTA143ET (-Q)	PDTA143EU (-Q)	PDTA143EQC (-Q)	PDTA143EQB (-Q)	PDTA143EM
			10	10	PDTA114ET (-Q)	PDTA114EU (-Q)	PDTA114EQC (-Q)	PDTA114EQB (-Q)	PDTA114EM
			22	22	PDTA124ET (-Q)	PDTA124EU (-Q)	PDTA124EQC (-Q)	PDTA124EQB (-Q)	PDTA124EM
			47	47	PDTA144ET (-Q)	PDTA144EU (-Q)	PDTA144EQC (-Q)	PDTA144EQB (-Q)	PDTA144EM
			100	100	PDTA115ET (-Q)	PDTA115EU (-Q)			PDTA115EM
		R1 ≠ R2	1	10	PDTA113ZT (-Q)	PDTA113ZU (-Q)			PDTA113ZM
			2.2	10	PDTA123YT (-Q)	PDTA123YU (-Q)		PDTA123YQB(-Q)	PDTA123YM
			2.2	47	PDTA123JT (-Q)	PDTA123JU (-Q)	PDTA123JQC (-Q)	PDTA123JQB (-Q)	PDTA123JM
			4.7	10	PDTA143XT (-Q)	PDTA143XU	PDTA143XQC (-Q)	PDTA143XQB (-Q)	PDTA143XM
			4.7	47	PDTA143ZT (-Q)	PDTA143ZU (-Q)	PDTA143ZQC (-Q)	PDTA143ZQB (-Q)	PDTA143ZM
			10	47	PDTA114YT (-Q)	PDTA114YU (-Q)	PDTA114YQC (-Q)	PDTA114YQB (-Q)	PDTA114YM
			22	47	PDTA124XT (-Q)	PDTA124XU (-Q)		PDTA124XQC (-Q)	PDTA124XM
			47	10	PDTA144VT (-Q)	PDTA144VU			PDTA144VM
			47	22	PDTA144WT (-Q)	PDTA144WU (-Q)			PDTA144WM
		Only R1	2.2	-	PDTA123TT	PDTA123TU			PDTA123TM
			4.7	-	PDTA143TT	PDTA143TU (-Q)			PDTA143TM
			10	-	PDTA114TT	PDTA114TU (-Q)			PDTA114TM
			22	-	PDTA124TT	PDTA124TU			PDTA124TM
			47	-	PDTA144TT	PDTA144TU			PDTA144TM
			100	-	PDTA115TT	PDTA115TU			PDTA115TM

Resistor equipped transistors (RETs)

50 V/100 mA double RETs

Package					Automotive-qualified								
					DFN1010B-6 (SOT1216)			DFN1412-6 (SOT1268)			SOT363 (SC-88)		
													
Size (mm)					1.1 x 1.0 x 0.37			1.4 x 1.2 x 0.5			2.0 x 1.25 x 0.95		
P _{tot} (mW)					350			480			300		
V _{CEO} (V)	I _C (mA)	Configuration	R1 (kΩ)	R2 (kΩ)	NPN / NPN	NPN / PNP	PNP / PNP	NPN / NPN	NPN / PNP	PNP / PNP	NPN / NPN	NPN / PNP	PNP / PNP
50	100	R1 = R2	2.2	2.2							PUMH20 (-Q)	PUMD20 (-Q)	PUMB20
			4.7	4.7							PUMH15 (-Q)	PUMD15 (-Q)	PUMB15
			10	10	PQMH11	PQMD3	PQMB11	PRMH11	PRMD3	PRMB11	PUMH11 (-Q)	PUMD3 (-Q)	PUMB11 (-Q)
			22	22		PQMD2			PRMD2		PUMH1 (-Q)	PUMD2 (-Q)	PUMB1 (-Q)
			47	47	PQMH2	PQMD12		PRMH2	PRMD12		PUMH2 (-Q)	PUMD12 (-Q)	PUMB2 (-Q)
			100	100							PUMH24 (-Q)	PUMD24 (-Q)	PUMB24
		R1 ≠ R2	2.2	47	PQMH10	PQMD10		PRMH10	PRMD10		PUMH10 (-Q)	PUMD10 (-Q)	PUMB10
			4.7	10							PUMH18 (-Q)	PUMD18 (-Q)	PUMB18
			4.7	47	PQMH13	PQMD13		PRMH13	PRMD13		PUMH13 (-Q)	PUMD13 (-Q)	PUMB13 (-Q)
			10	47	PQMH9			PRMH9			PUMH9 (-Q)	PUMD9 (-Q)	PUMD9 (-Q)
			22	47		PQMD16			PRMD16		PUMH16 (-Q)	PUMD16 (-Q)	PUMB16
			47	22							PUMH17	PUMD17 (-Q)	PUMB17 (-Q)
			47 / 2.2	47 / 47								PUMD48 (-Q)	
		Only R1	2.2	-							PUMH30 (-Q)	PUMD30	PUMB30
			4.7	-							PUMH7 (-Q)	PUMD6 (-Q)	PUMB3 (-Q)
			10	-							PUMH4 (-Q)	PUMD4 (-Q)	PUMB4 (-Q)
			22	-							PUMH19	PUMD19	PUMB19 (-Q)
			47	-							PUMH14 (-Q)	PUMD14	PUMB14

80 V/100 mA single/double RETs

					Automotive-qualified						
Package					SOT23		SOT323 (SC-70)		SOT363 (SC-88)		
											
Size (mm)					2.9 x 1.3 x 1.0		2.0 x 1.25 x 0.95		2.0 x 1.25 x 0.95		
P _{tot} (mW)					250		200		300		
V _{CEO} (V)	I _c (mA)	Configuration	R1 (kΩ)	R2 (kΩ)	NPN	PNP	NPN	PNP	NPN / NPN	NPN / PNP	PNP / PNP
80	100	R1 = R2	10	10	NHDTCT114ET (-Q)	NHDTA114ET (-Q)	NHDTCT114EU (-Q)	NHDTA114EU (-Q)	NHUMH11 (-Q)	NHUMD3 (-Q)	NHUMB11 (-Q)
			22	22	NHDTCT124ET (-Q)	NHDTA124ET (-Q)	NHDTCT124EU (-Q)	NHDTA124EU (-Q)	NHUMH1 (-Q)	NHUMD2 (-Q)	NHUMB1 (-Q)
			47	47	NHDTCT144ET (-Q)	NHDTA144ET (-Q)	NHDTCT144EU (-Q)	NHDTA144EU (-Q)	NHUMH2 (-Q)	NHUMD12 (-Q)	NHUMB2 (-Q)
		R1 ≠ R2	2.2	47	NHDTCT123JT (-Q)	NHDTA123JT (-Q)	NHDTCT123JU (-Q)	NHDTA123JU (-Q)	NHUMH10 (-Q)	NHUMD10 (-Q)	NHUMB10 (-Q)
			4.7	47	NHDTCT143ZT (-Q)	NHDTA143ZT (-Q)	NHDTCT143ZU (-Q)	NHDTA143ZU (-Q)	NHUMH13 (-Q)	NHUMD13 (-Q)	NHUMB13 (-Q)
			10	47	NHDTCT114YT (-Q)	NHDTA114YT (-Q)	NHDTCT114YU (-Q)	NHDTA114YU (-Q)	NHUMH9 (-Q)	NHUMD9 (-Q)	NHUMB9 (-Q)

50 V/500 mA single RETs

Package					Automotive-qualified					
					SOT23		SOT323 (SC-70)		DFN1010D-3 (SOT1215)	
										
Size (mm)					2.9 x 1.3 x 1.0		2.0 x 1.25 x 0.95		1.1 x 1.0 x 0.37	
P _{tot} (mW)					250		200		750	
V _{CEQ} (V)	I _C (mA)	Configuration	R1 (kΩ)	R2 (kΩ)	NPN	PNP	NPN	PNP	NPN	PNP
50	500	R1 = R2	1	1	PDTD113ET (-Q)	PDTB113ET (-Q)	PDTD113EU (-Q)	PDTB113EU (-Q)	PDTD113EQA	PDTB113EQA
			2.2	2.2	PDTD123ET (-Q)	PDTB123ET (-Q)	PDTD123EU (-Q)	PDTB123EU (-Q)	PDTD123EQA	PDTB123EQA
			4.7	4.7	PDTD143ET (-Q)	PDTB143ET (-Q)	PDTD143EU (-Q)	PDTB143EU (-Q)	PDTD143EQA	PDTB143EQA
			10	10	PDTD114ET (-Q)	PDTB114ET (-Q)	PDTD114EU (-Q)	PDTB114EU (-Q)	PDTD114EQA	PDTB114EQA
		R1 ≠ R2	1	10	PDTD113ZT (-Q)	PDTB113ZT (-Q)	PDTD113ZU (-Q)	PDTB113ZU (-Q)	PDTD113ZQA	PDTB113ZQA
			2.2	10	PDTD123YT (-Q)	PDTB123YT (-Q)	PDTD123YU (-Q)	PDTB123YU (-Q)	PDTD123YQA	PDTB123YQA
			4.7	10	PDTD143XT (-Q)	PDTB143XT (-Q)	PDTD143XU (-Q)	PDTB143XU (-Q)	PDTD143XQA	PDTB143XQA
		Only R1	2.2	-	PDTD123TT (-Q)	PDTB123TT (-Q)				

50 V/500 mA double RETs

Types in **bold** represent new products

Package					Automotive-qualified								
					SOT457 (SC-74)	DFN2020D-6 (SOT1118D)			DFN2020-6 (SOT1118)				
Size (mm)					2.9 x 1.5 x 1.0			2.0 x 2.0 x 0.62			2.0 x 2.0 x 0.62		
P _{tot} (mW)					750			500			500		
V _{CEQ} (V)	I _C (mA)	Configuration	R1 (kΩ)	R2 (kΩ)	NPN/NPN	NPN / PNP	PNP / PNP	NPN / NPN	NPN / PNP	PNP / PNP	NPN / NPN	NPN / PNP	PNP / PNP
50	500	R1 ≠ R2	1	10	PIMN31	PIMC31	PIMP31 (-Q)	PIMN31PAS-Q	PIMC31PAS-Q	PIMP31PAS-Q	PIMN31PA	PIMC31PA	PIMP31PA
			2.2	10	PIMN32 (-Q)	PIMC32 (-Q)	PIMP32 (-Q)	PIMN32PAS-Q	PIMC32PAS-Q	PIMP32PAS-Q	PIMN32PA	PIMC32PA	PIMP32PA

40V/600 mA Performance-based single RETs

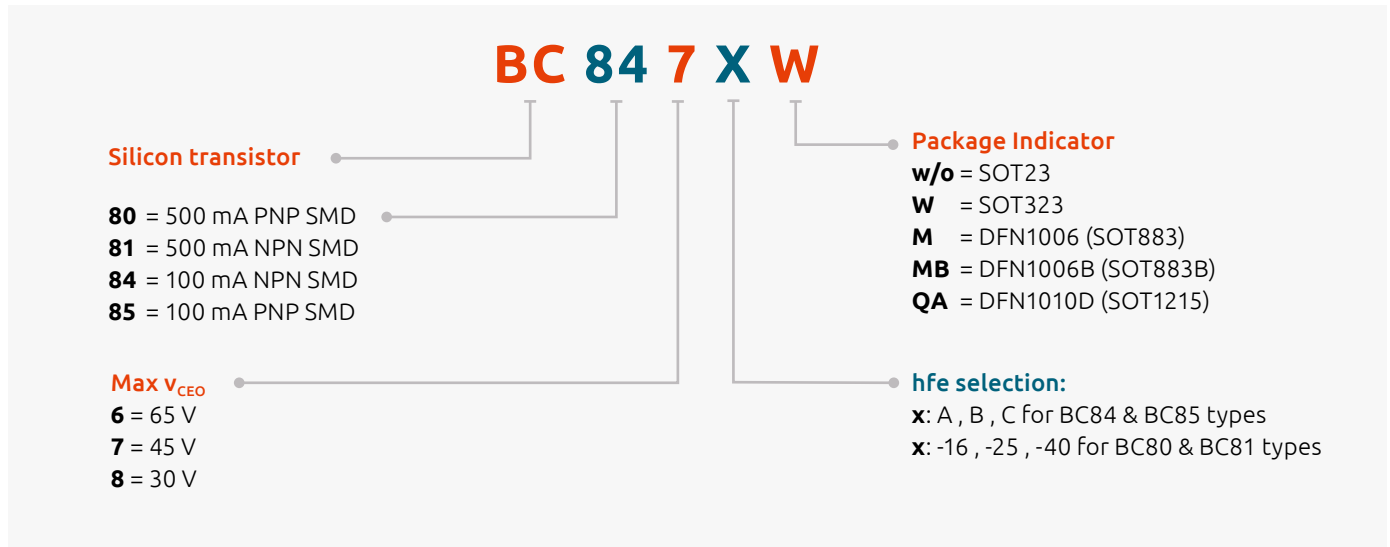
Package					Automotive-qualified	
					SOT23	
Size (mm)					2.9 x 1.3 x 1.0	
P _{tot} (mW)					250	
V _{CEQ} (V)	I _C (mA)		R1 (kΩ)	R2 (kΩ)	NPN	PNP
40	600	R1 = R2	1	1	PBRN113ET (-Q)	PBRP113ET (-Q)
			2.2	2.2	PBRN123ET (-Q)	PBRP123ET (-Q)
		R1 ≠ R2	1	10	PBRN113ZT (-Q)	PBRP113ZT (-Q)
			2.2	10	PBRN123YT (-Q)	PBRP123YT (-Q)

3-terminal adjustable shunt regulators

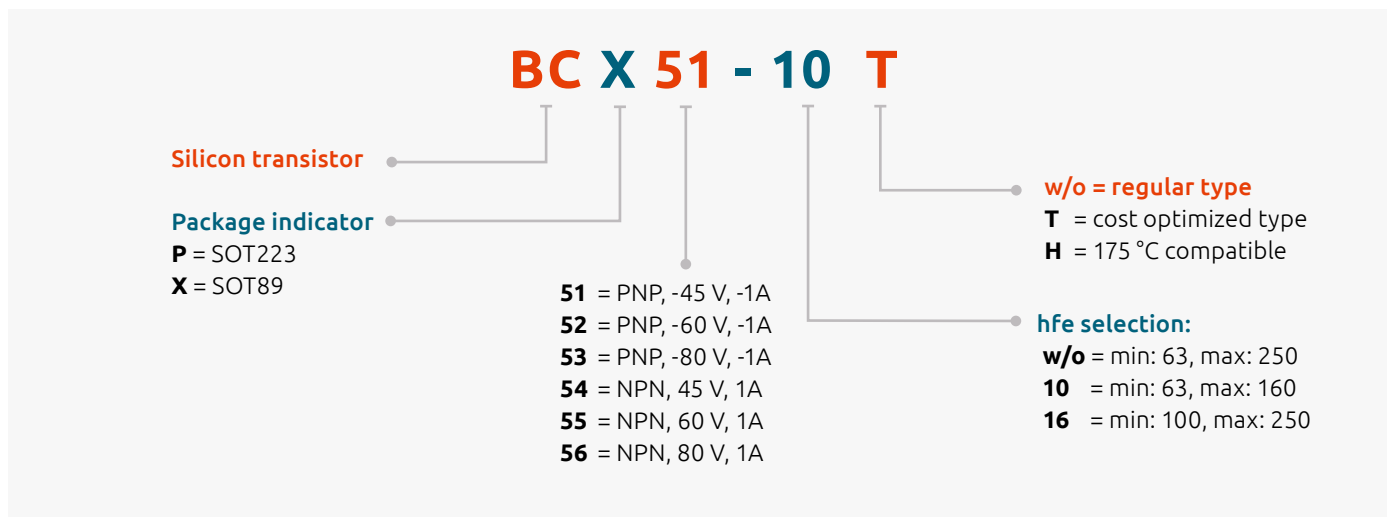
3-terminal adjustable shunt regulators

Automotive-qualified																					
Type name	Pinning configuration	T _{amb} (C°)	Vref		Package	Size(mm)	Ptot(mW)	VKA(V)	IK(mA)												
TLVH431NCDBZR (-Q)	Normal pinning	0 to 70	1.5%	1.24	 SOT23	2.9 x 1.3 x 1.0	480	20	80												
TLVH431NIDBZR (-Q)	Normal pinning	-40 to 85																			
TLVH431NQDBZR (-Q)	Normal pinning	-40 to 125																			
TLVH431NMQDBZR (-Q)	MIRrored pinning																				
TLVH431NACDBZR (-Q)	Normal pinning	0 to 70	1%							2.495	 SOT23	2.9 x 1.3 x 1.0	580	36	100						
TLVH431NAIDBZR (-Q)	Normal pinning	-40 to 85																			
TLVH431NAQDBZR (-Q)	Normal pinning	-40 to 125																			
TLVH431NAMQDBZR (-Q)	MIRrored pinning																				
TL431CDBZR (-Q)	Normal pinning	0 to 70	2%	2.495	 SOT23	2.9 x 1.3 x 1.0	580	36	100												
TL431IDBZR (-Q)	Normal pinning	-40 to 85																			
TL431QDBZR (-Q)	Normal pinning	-40 to 125																			
TL431FDT (-Q)	Normal pinning																				
TL431MFDt (-Q)	MIRrored pinning																				
TL431ACDBZR (-Q)	Normal pinning	0 to 70	1%							2.495	 SOT23	2.9 x 1.3 x 1.0	580	36	100						
TL431AIDBZR (-Q)	Normal pinning	-40 to 85																			
TL431AQDBZR (-Q)	Normal pinning	-40 to 125																			
TL431AFDT (-Q)	Normal pinning																				
TL431AMFDt (-Q)	MIRrored pinning																				
TL431BCDBZR (-Q)	Normal pinning	0 to 70	0.5%													2.495	 SOT23	2.9 x 1.3 x 1.0	580	36	100
TL431BIDBZR (-Q)	Normal pinning	-40 to 85																			
TL431BQDBZR (-Q)	Normal pinning	-40 to 125																			
TL431BFDT (-Q)	Normal pinning																				
TL431BMFDt (-Q)	MIRrored pinning																				

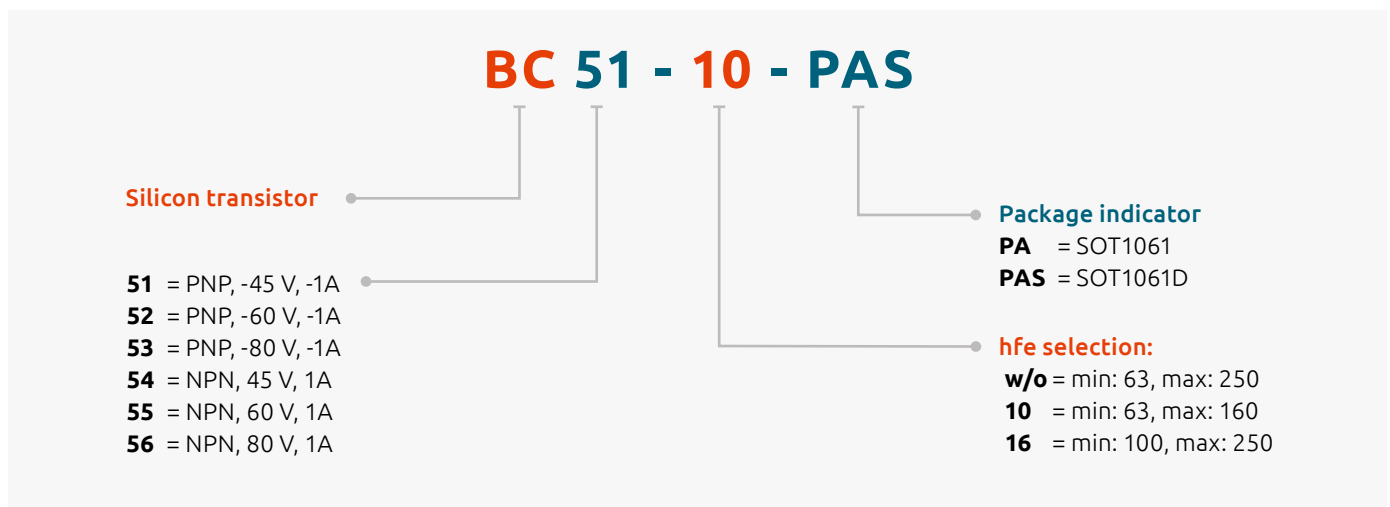
General purpose bipolar transistors



General purpose power transistors

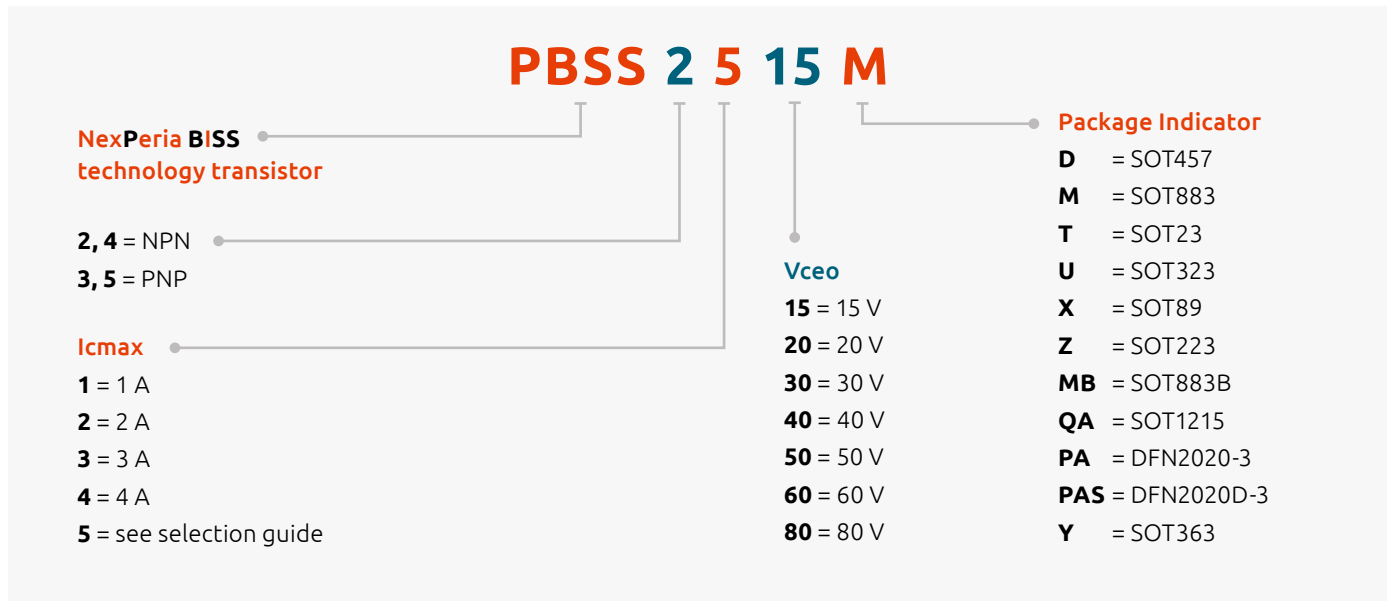


General purpose power transistors

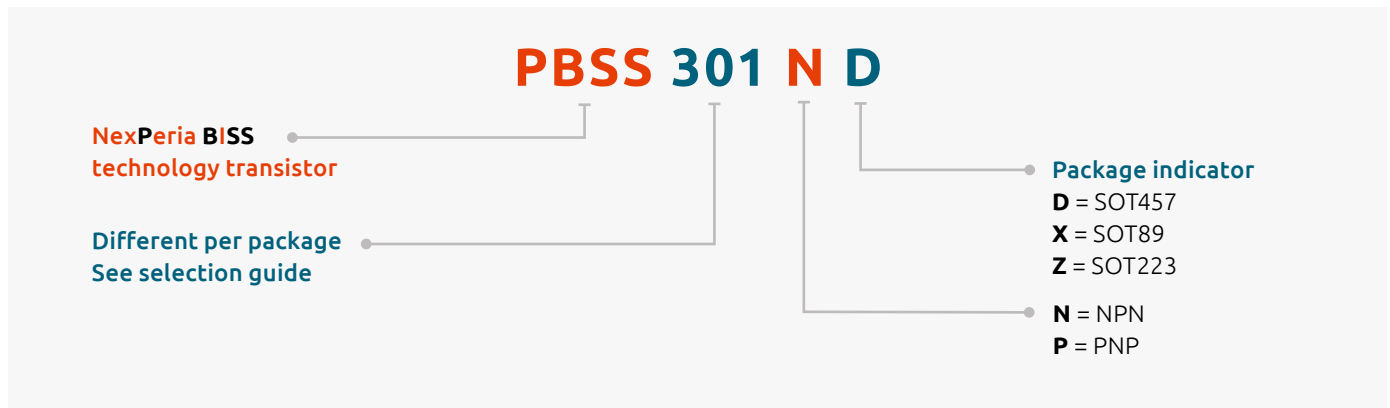


Nomenclatures

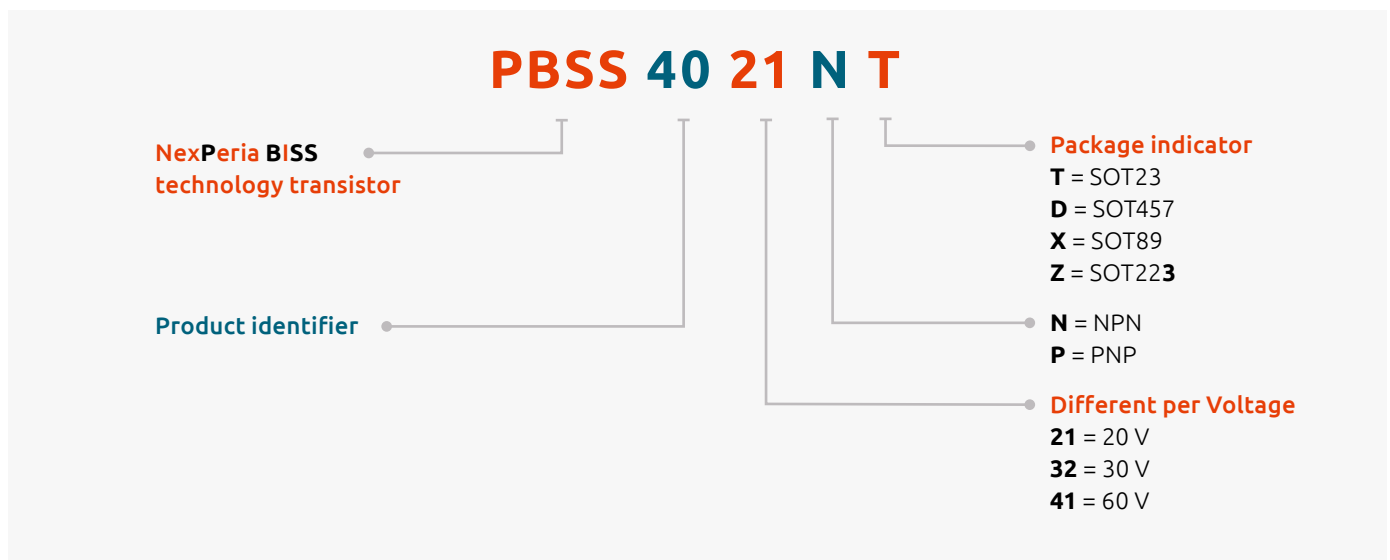
Low V_{CEsat} transistors

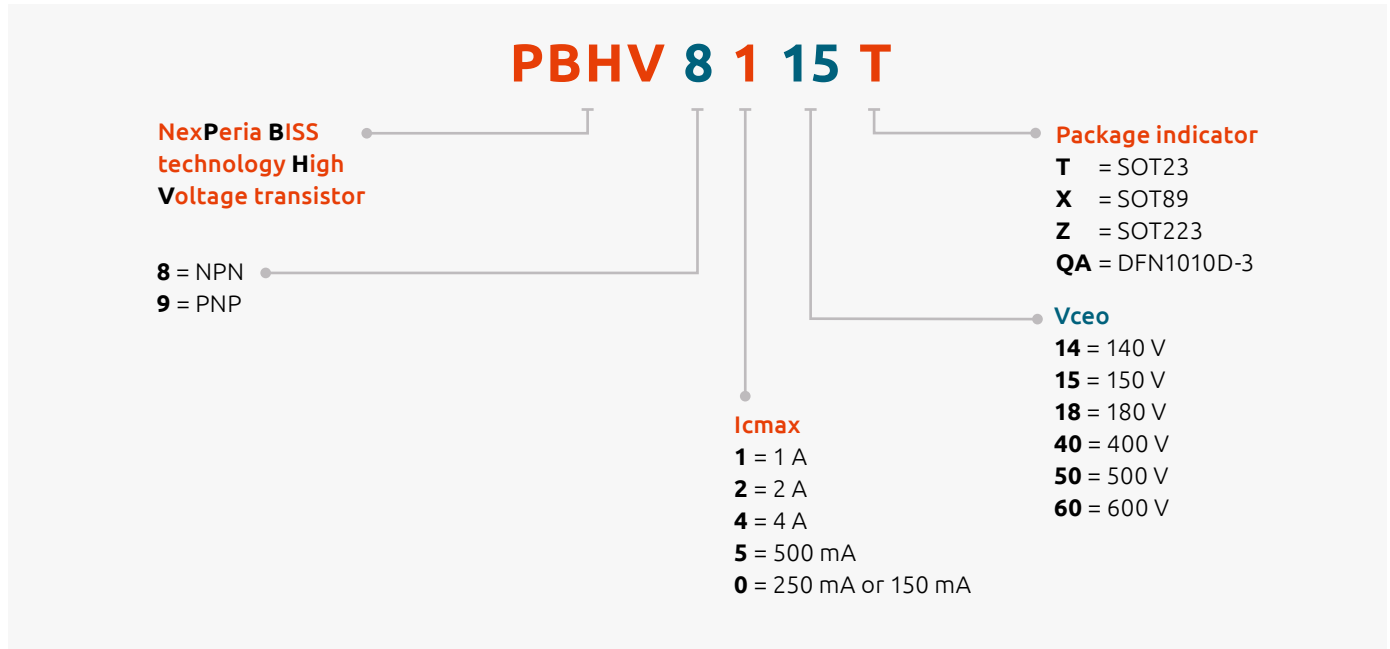


3rd generation Low V_{CEsat} transistors

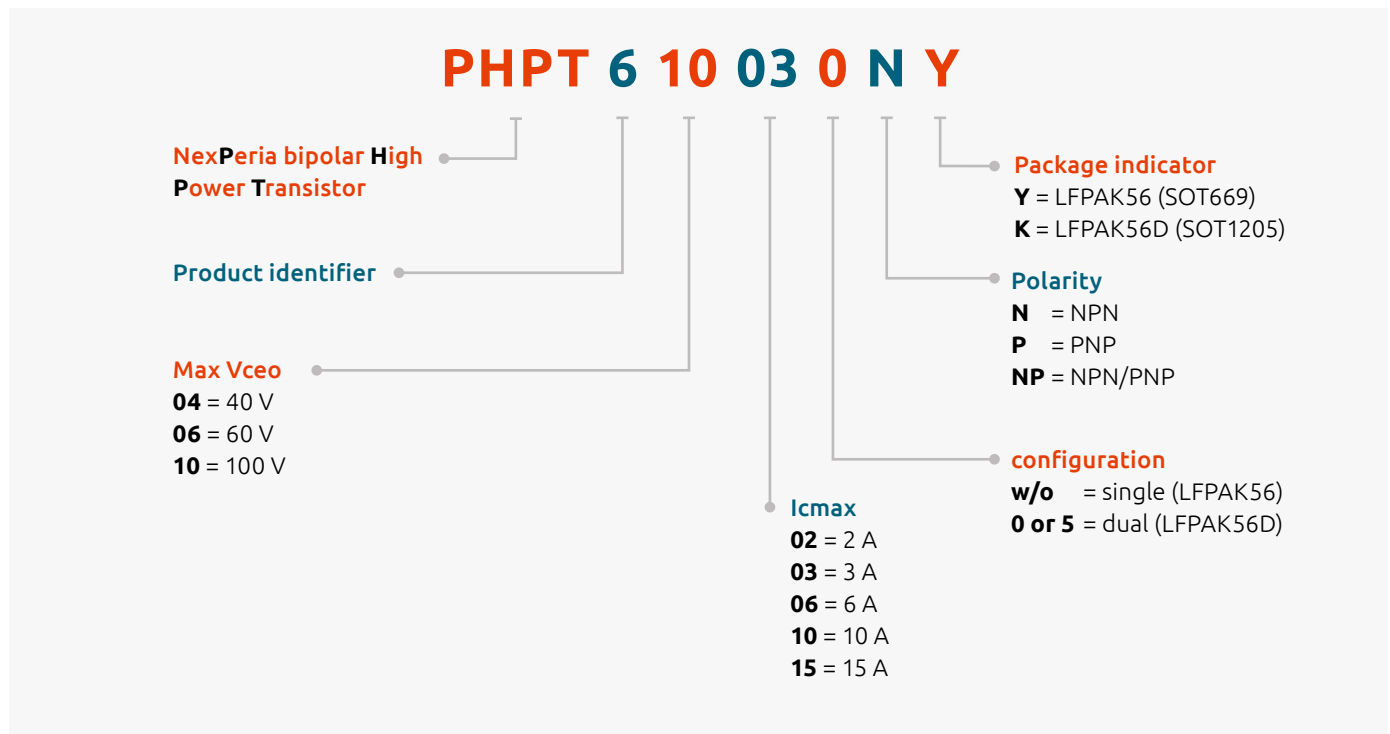


4th generation Low V_{CEsat} transistors



High-voltage Low V_{CEsat} transistors

Transistors in a LPAK SMD package





Zener diodes	50
General purpose Zener diodes Part 1	50
General purpose Zener diodes Part 2	51
A-Selection Zener Diodes (1% V_z tolerance)	51
Low leakage (low I_r) Zener diodes	52
Low differential resistance (low R_z) Zener diodes	52
50 μ A Zener diodes (V_z @ 50 μ A)	53
High non-repetitive peak reverse power dissipation (P_{ZSM}) Zener	53
High power voltage regulator Zener diodes (high P_{tot})	53
Zener diodes specifications	54
Switching diodes	55
General purpose, high speed switching diodes ≤ 90 V	55
General purpose, high speed switching diodes 100 V (Leaded SMD)	56
General purpose, high speed switching diodes 100 V (Leadless DFN)	56
General purpose, switching diodes ≥ 100 V	57
High performance switching diodes (175 °C capable & superior power dissipation)	58
Controlled avalanche switching diodes	58
Low leakage current switching diodes	58
Recovery rectifiers	59
Recovery rectifiers	59
Nomenclature recovery rectifiers automotive grade types	60
SiC Schottky diodes	61
SiC Schottky diodes	61
Schottky diodes and rectifiers	62
General purpose Schottky diodes ≤ 250 mA	62
Low capacitance Schottky diodes	63
Schottky rectifiers - leadless DSN/DFN packages	64
Power Schottky rectifiers - clip-bond packages	66
Schottky rectifiers - leaded packages	68
Dual Schottky rectifiers - leaded/leadless DFN packages	69
Nomenclatures	70

General purpose Zener diodes Part 1

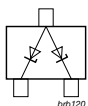
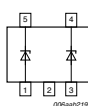
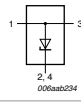
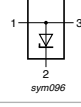
I _F max (mA)	P _{ZSM} (W)	V _Z nom (V)	V _Z tolerance	Note	Configuration		Series	Package	Automotive - qualified	Size (mm)	P _{tot} (mW)		
200	40	2.4~75	B, C	Europe	Single		BZX884S-Q series		Yes	1.0 x 0.6 x 0.47	365		
		1.8"51	B, C				BZX884S series		No				
		1.8"51	B, C	Japan			BZX8850S-Q series		Yes				
		1.8"51	B, C				PZU884LS-Q series		Yes				
200	40	2.4~75	B, C	Europe	Single		BZX884-Q series		Yes	1.0 x 0.6 x 0.48	250		
		2.4~75	B, C	Europe			BZX884 series		No		250		
		2.4~36	B, B2	Japan			PZUxBL series		No		550		
		2.4~36	B, B2	Japan			PZUxBL-Q series		Yes		550		
		1.8"51	B, C	Europe			BZX8850 series		No		250		
		1.8"51	B, C										
200	40	2.4~75	B, C	Europe	Single		BZX585-Q series		Yes	1.2 x 0.8 x 0.6	300		
		2.4~75	B, C				BZX585 series		No				
		2.4~36	B				SZMM5Z series		Yes				
		2.4~36	B				MM5Z series		No				
		1.8"51	B, C				BZX58550-Q series		Yes				
		1.8"51	B, C				BZX58550 series		No				
200	30	100	C	Europe	Back-to-back		BZB100A		Yes	1.7 x 1.25 x 0.95	830		
	40	2.4~51	B, B2	Japan	Single		PZUxBA-Q series		Yes		320		
		2.4~51	B, B2				PZUxBA series		No				
		2.4~36	B				PDZ-B series		Yes			400	
		2.4~75	B	Europe			SZMM3Z series		Yes		300		
		2.4~75	A,B,C				MM3Z series		No				
		2.4~75	A,B,C				BZX384-Q series		Yes				
		2.4~75	A,B,C				BZX384 series		No				
		2.4~75	A,B,C				BZX38450-Q series		Yes				
	250	1.8"51	B, C				BZX38450 series		No				
1.8"51		B, C											
200	60	100	C	Europe	Single		BZX100A		Yes	1.7 x 1.25 x 0.7	1000		
		2.4~51	B, B2	Japan			PZUxB-Q series		Yes				
		2.4~51	B, B2				PZUxB series		No				
250	40	2.4~75	B, C	Europe	BZX84J-Q series	Yes	550						
		2.4~75	B, C	Europe	BZX84J series	No							
		2.4~30	B	Europe	TDZxJ series	Yes	500						
250	40	2.4~75	B, C	Europe	Single		BZT52-Q series		Yes	2.7 x 1.6 x 1.2	590		
2.4~75		B, C	Europe	BZT52 series			No						
200		2.4~36	B	Japan			PDZ-GW series		Yes		625		
250	-	3.0~30	About 2.5%	Special	Single		NZH series		Yes	2.6 x 1.6 x 1.1	1000		
	40	2.4~75	A,B, C	Europe			BZT52H-Q series		Yes				
		2.4~75	A,B, C				BZT52H series		No		830		
		1.8"51	B, C				BZT5250H-Q series		Yes		830		
		1.8"51	B, C				BZT5250H series		No		830		
		1.8"51	B, C										
200	40	2.4~75	B, C	Europe	Dual c.a.		BZB84-Q series		Yes	2.9 x 1.3 x 1.0	300		
		2.4~75	B, C		Single		BZB84 series		No				
		2.4~75	A, B, C				BZX84-Q series		Yes				
		2.4~75	A, B, C				BZX84 series		No				
		1.8"51	B, C	Japan			BZX8450-Q series		Yes		250		
		1.8"51	B, C				BZX8450 series		No				
		2.4~51	B, C				PZU84-Q series		Yes				
		2.4~51	B, C				PZU84 series		No				
	250	30	5~6.8	0.2 V	Ave	Single		PLVA600A series			Yes		

Notes:

Japan: B selection: app. 5% V_Z tolerance, B1, B2, B3 selections: app. 2% V_Z tolerance in sequential intervals Europe: A selection: app. 1% V_Z tolerance, B selection: app. 2% V_Z tolerance, C selection: app. 5% V_Z tolerance; the selections are in overlapping intervals

Ave: low-voltage avalanche regulator diodes Dual c.a.: dual common anode

General purpose Zener diodes Part 2

I_F max (mA)	P_{ZSM} (W)	V_Z nom (V)	V_Z tolerance	Note	Configuration		Series	Package	Automotive - qualified	Size (mm)	P_{tot} (mW)
200	40	2.4~15	C	Europe	Dual c.a.	 brb120	BZB784 series	 SOT323 (SC-70)	Yes	2.0 x 1.25 x 0.95	350
		2.4~75	B, C		Single	 aaa-006592	BZX84W-Q series		Yes		275
		2.4~75	B, C		Single	n.c.	BZX84W series		No		
200	40	10	B2	Japan	Dual isolated	 006aaa0219	PZU10DB2	 SOT353 (SC-88A)	Yes	2.0 x 1.25 x 0.95	275
400	40	2.4~75	C	Europe	Single	 2, 4 006aaa0234	BZV90 series	 SOT223 (SC-73)	Yes	6.5 x 3.5 x 1.65	1500
250	40	2.4~75	C	Europe	Single	 1 2 sym006	BZV49 series	 SOT89 (SC-62)	Yes	4.5 x 2.5 x 1.5	1000
400	800	3.0~75	C	Europe	Single	 bb118	HPZR-Q series	 CFP3 (SOD123W)	Yes	2.6 x 1.7 x 1.0	4100
		3.0~75	C	Europe	Single		HPZR series		No	2.6 x 1.7 x 1.0	5500

A-Selection Zener Diodes (1% V_Z tolerance)

I_F max (mA)	P_{ZSM} (W)	V_Z nom (V)	V_Z tolerance	Note	Configuration		Series	Package	Automotive - qualified	Size (mm)	P_{tot} (mW)
250	40	2.4~75	A	Europe	Single	 bb118	BZX384-A (-Q) series	 SOD323 (SC-76)	No	1.7 x 1.25 x 0.95	300
250	40	2.4~75	A	Europe	Single	 bb118	BZT52H-A (-Q) series	 SOD123F	Yes	2.6 x 1.6 x 1.1	830
200	40	2.4~75	A	Europe	Single	 bb118	BZX84-A (-Q) series	 SOT23	Yes	2.9 x 1.3 x 1.0	250

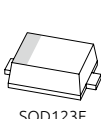
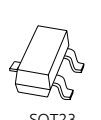
Low leakage (low I_r) Zener diodes

I_F max (mA)	P_{ZSM} (W)	V_Z nom (V)	V_Z tolerance	Note	Configuration		Series	Package	Automotive - qualified	Size (mm)	P_{tot} (mW)
200	40	5.1~10	B, B2	Japan	Single		PZUxBL (-Q) series	 DFN1006-2 (SOD882)	Yes	1.0 x 0.6 x 0.48	250
200	40	5.1~10	B, C	Japan	Single		PZU884LS (-Q)	 DFN1006BD-2 (SOD882BD)	Yes	"1.0 x 0.6 x 0.47"	365
200	40	5.1~10	B, B2	Japan	Single		PZUxBA (-Q) series	 SOD323 (SC-76)	Yes	1.7 x 1.25 x 0.95	300
200	40	5.1~10	B, B2	Japan	Single		PZUxB (-Q) series	 SOD323F (SC-90)	Yes	1.7 x 1.25 x 0.7	550
200	40	10	B2	Japan	Dual isolated		PZU10DB2 series	 SOT353 (SC-88A)	Yes	2.0 x 1.25 x 0.95	300
200	40	5.1~10	B, C	Japan	Single		PZU84 (-Q)	 SOT23	Yes	2.9 x 1.3 x 1.0	250
250	30	5~6.8	0.2 V	Ave	Single		PLVA600A series	 SOT23	Yes	2.9 x 1.3 x 1.0	250

Low differential resistance (low R_Z) Zener diodes

I_F max (mA)	P_{ZSM} (W)	V_Z nom (V)	V_Z tolerance	Note	Configuration		Series	Package	Automotive - qualified	Size (mm)	P_{tot} (mW)
200	40	2.4~51	B, C	Japan	Single		PZU884LS (-Q)	 DFN1006BD-2 (SOD882BD)	Yes	1.0 x 0.6 x 0.47	365
200	40	2.4~51	B, B2	Japan	Single		PZUxBA (-Q) series	 SOD323 (SC-76)	Yes	1.7 x 1.25 x 0.95	300
200	40	2.4~51	B, B2	Japan	Single		PZUxB (-Q) series	 SOD323F (SC-90)	Yes	1.7 x 1.25 x 0.95	300
200	40	2.4~51	B, B2	Japan	Single		PZUxBL (-Q) series	 DFN1006-2 (SOD882)	Yes	1.0 x 0.6 x 0.48	250
200	40	2.4~36	B	Japan	Single		PDZ-GW series	 SOD123	Yes	2.7 x 1.6 x 1.2	625
200	40	2.4~36	B	Japan	Single		PDZ-B series	 SOD323F (SC-90)	Yes	1.7 x 1.25 x 0.95	300
200	40	2.4~51	B, B2	Japan	Single		PZU84 (-Q)	 SOT23	Yes	2.9 x 1.3 x 1.0	250
250	30	5~6.8	0.2 V	Ave	Single		PLVA600A series	 SOT23	Yes	2.9 x 1.3 x 1.0	250

50µA Zener diodes (V_z @ 50µA)

I_F max (mA)	P_{ZSM} (W)	V_z nom (V)	V_z tolerance	Note	Configuration		Series	Package	Automotive - qualified	Size (mm)	P_{tot} (mW)
200	40	1.8"51	B,C	Europe	Single		BZX8850s-Q series	 DFN1006BD-2 (SOD882BD)	Yes No	1.0 x 0.6 x 0.47	365
200	40	1.8"51	B,C	Europe	Single		BZX8850-Q series BZX8850 series	 DFN1006-2 (SOD882)	Yes No	1.0 x 0.6 x 0.47	365
200	40	1.8"51	B,C	Europe	Single		BZX58550-Q series BZX58550 series	 SOD523 (SC-79)	Yes No	1.2 x 0.8 x 0.6	300
250	40	1.8"51	B,C	Europe	Single		BZX38450-Q series BZX38450 series	 SOD323 (SC-76)	Yes No	1.7 x 1.25 x 0.95	300
200	40	1.8"51	B,C	Europe	Single		BZT5250H-Q series BZT5250H series	 SOD123F	Yes No	2.9 x 1.3 x 1.0	250
200	40	1.8"51	B,C	Europe	Single		BZX8450-Q series BZX8450 series	 SOT23	Yes No	2.9 x 1.3 x 1.0	250

High non-repetitive peak reverse power dissipation (P_{ZSM}) ZenerTypes in **bold** represent new products

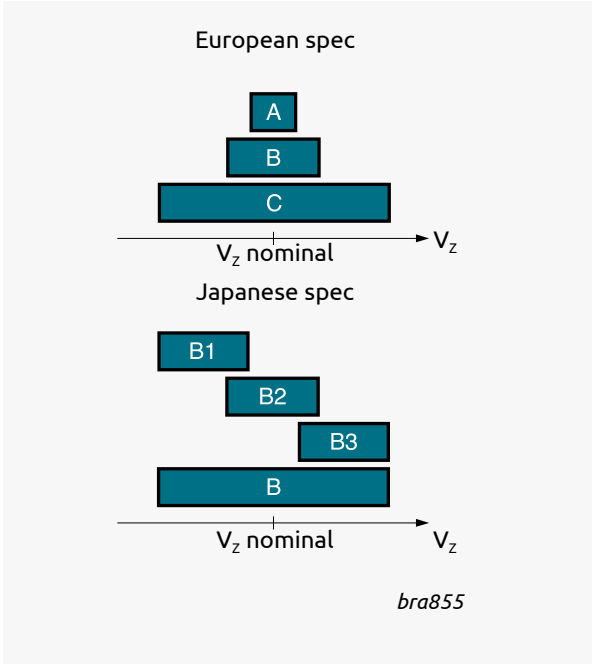
I_F max (mA)	P_{ZSM} (W)	V_z nom (V)	V_z tolerance	Note	Configuration		Series	Package	Automotive - qualified	Size (mm)	P_{tot} (mW)
250	100-180	2.4~6.8	B	Europe	Single		TDZxJ series	 SOD323F (SC-90)	Yes	1.7 x 1.25 x 0.7	500
	100		B, C				BZX84J series				
400	800	3.0"75	C	Europe	Single		HPZR-Q series	 CFP3 (SOD123W)	Yes	2.6 x 1.7 x 1.0	5500
		3.0"75	C	Europe	Single		HPZR series		No		4100

High power voltage regulator Zener diodes (high P_{tot})Types in **bold** represent new products

I_F max (mA)	P_{ZSM} (W)	V_z nom (V)	V_z tolerance	Note	Configuration		Series	Package	Automotive - qualified	Size (mm)	P_{tot} (mW)
400	800	3.0"75	C	Europe	Single		HPZR-Q series	 CFP3 (SOD123W)	Yes	2.6 x 1.7 x 1.0	5500
		3.0"75	C	Europe	Single		HPZR series		No		4100

Zener diodes specifications

Differences in Zener specifications



European spec (BZV, BZX, BZB, 1N47)

y =		C-series	B-series	A-series
		±5%	±2%	±1%
	V_z	V_z (V)	V_z (V)	V_z (V)
BZX	2.4V	2.2 - 2.6	2.35 - 2.45	2.37 - 2.43
BZX	2.7V	2.5 - 2.9	2.65 - 2.75	2.67 - 2.73
BZX	3.0V	2.8 - 3.2	2.94 - 3.06	2.97 - 3.03
BZX	3.3V	3.1 - 3.5	3.23 - 3.37	3.26 - 3.34
BZX	3.6V	3.4 - 3.8	3.53 - 3.67	3.56 - 3.64
BZX	3.9V	3.7 - 4.1	3.82 - 3.98	3.86 - 3.94
BZX	4.3V	4 - 4.6	4.21 - 4.39	4.25 - 4.35
BZX	4.7V	4.4 - 5	4.61 - 4.79	4.65 - 4.75
BZX	5.1V	4.8 - 5.4	5 - 5.2	5.04 - 5.16
BZX	5.6V	5.2 - 6	5.49 - 5.71	5.54 - 5.66
BZX	6.2V	5.8 - 6.6	6.08 - 6.32	6.13 - 6.27
BZX	6.8V	6.4 - 7.2	6.66 - 6.94	6.73 - 6.87
BZX	7.5V	7 - 7.9	7.35 - 7.65	7.42 - 7.58
BZX	8.2V	7.7 - 8.7	8.04 - 8.36	8.11 - 8.29
BZX	9.1V	8.5 - 9.6	8.92 - 9.28	9 - 9.2
BZX	10V	9.4 - 10.6	9.8 - 10.2	9.9 - 10.1
BZX	11V	10.4 - 11.6	10.8 - 11.2	10.8 - 11.1
BZX	12V	11.4 - 12.7	11.8 - 12.2	11.88 - 12.12
BZX	13V	12.4 - 14.1	12.7 - 13.3	12.87 - 13.13
BZX	15V	13.8 - 15.6	14.7 - 15.3	14.85 - 15.15
BZX	16V	15.3 - 17.1	15.7 - 16.3	15.84 - 16.16
BZX	18V	16.8 - 19.1	17.6 - 18.4	17.82 - 18.18
BZX	20V	18.8 - 21.2	19.6 - 20.4	19.8 - 20.2
BZX	22V	20.8 - 23.3	21.6 - 22.4	21.78 - 22.22
BZX	24V	22.8 - 25.6	23.5 - 24.5	23.76 - 24.24
BZX	27V	25.1 - 28.9	26.5 - 27.5	26.73 - 27.27
BZX	30V	28 - 32	29.4 - 30.6	29.70 - 30.30
BZX	33V	31 - 35	32.3 - 33.7	32.67 - 33.33
BZX	36V	34 - 38	35.3 - 36.7	35.64 - 36.36
BZX	39V	37 - 41	38.2 - 39.8	38.61 - 39.39
BZX	43V	40 - 46	42.1 - 43.9	42.57 - 43.43
BZX	47V	44 - 50	46.1 - 47.9	-
BZX	51V	48 - 54	50 - 52	50.49 - 51.51
BZX	56V	52 - 60	54.9 - 57.1	-
BZX	62V	58 - 66	60.8 - 63.2	-
BZX	68V	64 - 72	66.6 - 69.4	-
BZX	75V	70 - 79	73.5 - 76.5	74.25 - 75.75

Japanese spec (PZU, PDZ)

y =		C- B-series	B- B2-series
		± 5%	± 2%
	V_z	V_z (V)	V_z (V)
PZU	2.4V	2.3 - 2.6	-
PZU	2.7V	2.5 - 2.9	2.65 - 2.9
PZU	3.0V	2.8 - 3.2	2.95 - 3.2
PZU	3.3V	3.1 - 3.5	3.25 - 3.5
PZU	3.6V	3.4 - 3.8	3.55 - 3.8
PZU	3.9V	3.7 - 4.1	3.87 - 4.1
PZU	4.3V	4.01 - 4.48	4.15 - 4.34
PZU	4.7V	4.42 - 4.9	4.55 - 4.75
PZU	5.1V	4.84 - 5.37	4.98 - 5.2
PZU	5.6V	5.31 - 5.92	5.49 - 5.73
PZU	6.2V	5.86 - 6.53	6.06 - 6.33
PZU	6.8V	6.47 - 7.14	6.65 - 6.93
PZU	7.5V	7.06 - 7.84	7.28 - 7.6
PZU	8.2V	7.76 - 8.64	8.02 - 8.36
PZU	9.1V	8.56 - 9.55	8.85 - 9.23
PZU	10V	9.45 - 10.55	9.77 - 10.21
PZU	11V	10.44 - 11.56	10.76 - 11.22
PZU	12V	11.42 - 12.6	11.74 - 12.24
PZU	13V	12.47 - 13.96	12.91 - 13.49
PZU	14V	-	13.7 - 14.3
PZU	15V	13.84 - 15.52	14.34 - 14.98
PZU	16V	15.37 - 17.09	15.85 - 16.51
PZU	18V	16.94 - 19.03	17.56 - 18.35
PZU	20V	18.86 - 21.08	19.52 - 20.39
PZU	22V	20.88 - 23.17	21.54 - 22.47
PZU	24V	22.93 - 25.57	23.72 - 24.78
PZU	27V	25.1 - 28.9	26.50 - 27.50
PZU	30V	28 - 32	29.4 - 30.6
PZU	33V	31 - 35	32.34 - 33.66
PZU	36V	34 - 38	35.3 - 36.7
PZU	39V	37 - 41	38.2 - 39.8
PZU	43V	40 - 46	42.1 - 43.9
PZU	47V	44 - 50	46.1 - 47.9
PZU	51V	48 - 54	50 - 52

y =		C-series	B-series
		±5%	±2%
	V_z	V_z (V)	V_z (V)
BZX*50*	1.8V	1.71-1.89	1.764-1.836
BZX*50*	2.0V	1.88-2.12	1.96-2.04
BZX*50*	2.2V	2.09-2.31	2.156-2.244
BZX*50*	2.4V	2.28-2.52	2.35-2.45
BZX*50*	2.7V	2.565-2.835	2.65-2.75
BZX*50*	3.0V	2.85-3.15	2.94-3.06
BZX*50*	3.3V	3.13-3.47	3.23-3.37
BZX*50*	3.6V	3.42-3.78	3.53-3.67
BZX*50*	3.9V	3.7-4.1	3.82-3.98
BZX*50*	4.3V	4.09-4.52	4.21-4.39
BZX*50*	4.7V	4.47-4.94	4.61-4.79
BZX*50*	5.1V	4.85-5.36	5-5.2
BZX*50*	5.6V	5.32-5.88	5.49-5.71
BZX*50*	6.2V	5.89-6.51	6.08-6.32
BZX*50*	6.8V	6.46-7.14	6.66-6.94
BZX*50*	7.5V	7.13-7.88	7.35-7.65
BZX*50*	8.2V	7.79-8.61	8.04-8.36
BZX*50*	9.1V	8.65-9.56	8.92-9.28
BZX*50*	10V	9.5-10.5	9.8-10.2
BZX*50*	11V	10.45-11.55	10.8-11.2
BZX*50*	12V	11.4-12.6	11.8-12.2
BZX*50*	13V	12.35-13.65	12.7-13.3
BZX*50*	15V	14.25-15.75	14.7-15.3
BZX*50*	16V	15.2-16.8	15.7-16.3
BZX*50*	18V	17.1-18.9	17.6-18.4
BZX*50*	20V	19-21	19.6-20.4
BZX*50*	22V	20.9-23.1	21.6-22.4
BZX*50*	24V	22.8-25.2	23.5-24.5
BZX*50*	27V	25.65-28.35	26.5-27.5
BZX*50*	30V	28.5-31.5	29.4-30.6
BZX*50*	33V	31.35-34.65	32.3-33.7
BZX*50*	36V	34.2-37.8	35.3-36.7
BZX*50*	39V	37.05-40.95	38.2-39.8
BZX*50*	43V	40.85-45.15	42.14-43.86
BZX*50*	47V	44-50	46.1-47.9
BZX*50*	51V	48-54	50-52

General purpose, high speed switching diodes ≤ 90 V

						Automotive-qualified									
						Package	SOD80C (MiniMelf)	SOT23	SOT143B	SOT323 (SC-70)	SOT363 (SC-88)	DFN1110D-3 (SOT8015)	DFN1412-6 (SOT1268)	DFN1010D-3 (SOT1215)	DFN1006-3 (SOT883)
															
							Size (mm)	3.5 x 1.5 x 1.5	2.9 x 1.3 x 1.0	2.9 x 1.3 x 1.0	2.0 x 1.25 x 0.95	2.0 x 1.25 x 0.95	1.1x1.0.x0.48	1.4 x 1.2 x 0.5	1.1 x 1.0 x 0.37
V_R max (V)	V_F max (V)	@ I_F (mA)	I_R max (nA)	@ V_R (V)	t_{rr} max (ns)	P_{tot} (mW)	400	250	250	200	350		480	325	250
50	1	50	100	50	4			BAL74 (-Q)							
								BAV74 (-Q)							
70	1	50	1000	70	4			BAL99 (-Q)							
75	1	50	1000	75	4				BAS28						
		100	5000	75	4		BAS32L								
80	1	50	500	80	4					1PS300 (-Q)					
										1PS301 (-Q)					
										1PS302 (-Q)					
90	1	50	500	80	4			BAW56 (-Q)		BAW56W(-Q)		BAW56QB (-Q)		BAW56QA (-Q)	BAW56M (-Q)
											BAW56S (-Q)		BAW56SRA		
											BAV756S (-Q)				

General purpose, high speed switching diodes 100 V (Leaded SMD)

V_R max (V) V_F max (V) @ I_F (mA) I_R max (nA) @ V_R (V) t_{rr} max (ns)						Package	Automotive-qualified										
							SOT23	SOD123	SOD123F	SOT323 (SC-70)	SOT363 (SC-88)	SOD323 (SC-76)	SOD323F (SC-90)	SOD523 (SC-79)	DFN1006BD-2 (SOD882BD)	DFN1110D-3 (SOT8015)	DFN1412D-3 (SOT8009)
																	
							Size (mm)	2.9 x 1.3 x 1.0	2.7 x 1.6 x 1.2	2.6 x 1.6 x 1.1	2.0 x 1.25 x 0.95	2.0 x 1.25 x 0.95	1.7 x 1.25 x 0.95	1.7 x 1.25 x 0.7	1.2 x 0.8 x 0.6	1 x 0.6 x 0.47	1.1x1.0.x0.48
P_{tot} (mW)	250	380	375	200	300	300	300	250	345			345					
100	1	50	500	80	4			BAS16GW (-Q)	BAS16H (-Q)			BAS316 (-Q)	BAS16J (-Q)	BAS516 (-Q)			
							BAS16 (-Q)			BAS16W (-Q)							
											BAS16VY (-Q)						
							BAV70 (-Q)			BAV70W (-Q)							
											BAV70S (-Q)						
							BAV99 (-Q)			BAV99W (-Q)							
											BAV99S						
														BAS16LS (-Q)			
																BAV99QB (-Q)	BAV99QC (-Q)

General purpose, high speed switching diodes 100 V (Leadless DFN)

						Automotive-qualified							
V_R max (V)	V_F max (V)	@ I_F (mA)	I_R max (nA)	@ V_R (V)	t_{rr} max (ns)	Package	DFN1412-6 (SOT1268)	DFN1010D-3 (SOT1215)	DFN1006-2 (SOD882)	DFN1006-3 (SOT883)	DFN1006D-2 (SOD882D)	DFN1006BD-2 (SOD882BD)	DFN1110D-3 (SOT8015)
100	1	50	500	80	4								
						Size (mm)	1.4 x 1.2 x 0.5	1.1 x 1.0 x 0.37	1.0 x 0.6 x 0.48	1.0 x 0.6 x 0.48	1.0 x 0.6 x 0.37	1.0 x 0.6 x 0.47	1.1 x 1.0 x 0.48
						P _{tot} (mW)	480	325	250	250	250	250	
									BAS16L (-Q)		BAS16LD (-Q)	BAS16LS	
								BAS16QA (-Q)					
													
								BAV70QA (-Q)		BAV70M (-Q)			BAV70QB (-Q)
							BAV70SRA (-Q)						
								BAV99QA (-Q)					
													

General purpose, switching diodes ≥ 100 V

						Automotive-qualified																		
V_R max (V)	V_F max (V)	@ I_F (mA)	I_R max (nA)	@ V_R (V)	t_{rr} max (ns)	Package		Size (mm)	P_{tot} (mW)															
								3.5 x 1.5 x 1.5	400		SOD80C (MiniMelf)													
								2.9 x 1.5 x 1.0	250		SOT457 (SC-74)													
								2.9 x 1.3 x 1.0	250		SOT23													
								2.9 x 1.3 x 1.0	250		SOT143B													
								2.7 x 1.6 x 1.2	380		SOD123													
								2.6 x 1.6 x 1.1	375		SOD123F													
								2.0 x 1.25 x 0.95	200		SOT323 (SC-70)													
								2.0 x 1.25 x 0.95	255		SOT353 (SC-88A)													
								2.0 x 1.25 x 0.95	300		SOT363 (SC-88)													
								1.7 x 1.25 x 0.95	300		SOD323 (SC-76)													
								1.7 x 1.25 x 0.7	300		SOD323F (SC-90)													
								1.2 x 0.8 x 0.6	250		SOD523 (SC-79)													
								1.0 x 0.6 x 0.48 (1.0 x 0.6 x 0.37)	250		DFN1006D-2 (SOD882 (D))													
								1.1 x 1.0 x 0.37	325		DFN1010D-3 (SOT1215)													
								1 x 0.6 x 0.47	610		DFN1006BD-2 (SOD882BD)													
								1.1 x 1 x 0.47	745		DFN1110D-3 (SOT8015)													
								1.4 x 1.2 x 0.47	750		DFN1412D-3 (SOT8009)													
100	1	100	100	100	50						BAS19 (-Q)													
150	1	100	100	150	50		BAV102																	
																								
200	1	100	100	200	50		BAV103																	
																								
																								
																								
																								
																								
																								
																								
																								
						300	1.1	100	150	250	50													
																								
																								
																								
																								

Switching diodes

High performance switching diodes (175 °C capable & superior power dissipation)

							Automotive-qualified	
V_R max (V)	V_F max (V)	@ I_F (mA)	I_R max (nA)	@ V_R (V)	t_{rr} max (ns)	Package	SOT23	
								
						Size (mm)	2.9 X 1.3 X 1.0	
						P_{tot} (mW)	300	
100	1	50	500	80	4		BAS16TH (-Q)	
200	1	100	100	200	50		BAS21TH (-Q)	

Controlled avalanche switching diodes

									Automotive-qualified	
V_R max (V)	V_F max (V)	@ I_F (mA)	I_R max (nA) @ V_R max	I_{FSM} max (A)	I_{FRM} max (mA)	C_d max (pF)	t_{rr} max (ns)	Package	SOT23	SOT143B
										
								Size (mm)	2.9 x 1.3 x 1.0	2.9 x 1.3 x 1.0
								P_{tot} (mW)	250	250
60	1	200	100	9	600	2.5	6			BAS56
90	1	200	100	10	600	35	50		BAS29	
									BAS31	
									BAS35	

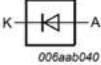
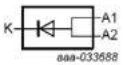
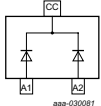
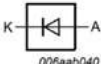
Low leakage current switching diodes

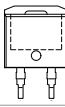
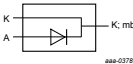
Types in **bold** represent new products

						Automotive-qualified												
V_R max (V)	V_F max (V)	@ I_F (mA)	I_R max (nA) @ V_R max	t_{rr} max (μs)	Package	SOD80C (MiniMelf)	SOD68 (DO-34)	SOT23	SOD123	SOD123F	SOT323 (SC-70)	SOD323 (SC-76)	SOD523 (SC-79)	DFN1010D-3 (SOT1215)	DFN1006-3 (SOT883)	DFN1006-2 (SOD882)	DFN1006BD-2 (SOD882BD)	DFN1412D-3 (SOT8009)
																		
					Size (mm)	3.5 x 1.5 x 1.5	3.04 x 1.6 x 0.55	2.9 x 1.3 x 1.0	2.7 x 1.6 x 1.2	2.6 x 1.6 x 1.1	2.0 x 1.25 x 0.95	1.7 x 1.25 x 0.95	1.2 x 0.8 x 0.6	1.1 x 1.0 x 0.37	1.0 x 0.6 x 0.48	1.0 x 0.6 x 0.48	1.0 x 0.6 x 0.47	1.4 x 1.2 x 0.47
					P _{tot} (mW)	400	300	250	380	375	250	250	250	305	250	250		345
75	1	10	5	3					BAS-116GW (-Q)	BAS116H (-Q)		BAS416 (-Q)	BAS716 (-Q)			BAS116L (-Q)	BAS116LS (-Q)	
								BAS116 (-Q)					BAS116QA (-Q)					
								BAV199 (-Q)			BAV199W (-Q)						BAV199QC (-Q)	
								BAW156 (-Q)										
								BAV170 (-Q)						BAV170QA (-Q)	BAV170M (-Q)			
125	1	100	1	1.5 typ		BAS45AL	BAS45A											

Recovery rectifiers

Types in **bold** represent new products

							Automotive-qualified			
V_R max (V)	V_F max (V)	(@) I_F (A)	I_R max (μA)	(@) V_R (V)	t_{rr} max (ns)	Package	CFP2-HP (SOD323HP)	CFP3 (SOD123W)	CFP5 (SOD128)	CFP15B (SOT1289B)
										
						Size (mm)	2.2 x 1.3 x 0.68	2.6 x 1.7 x 1.0	3.8 x 2.5 x 1.0	5.8 x 4.3 x 0.95
						P_{tot} (mW) @ 1cm ²	1200	1150	1200	2150
200	1.02	1	0.075	200	25		PNE20010EXD (-Q)			
	1.09	2	0.075	200	25		PNE20020EXD (-Q)			
	0.93	1	0.2	200	25			PNE20010ER (-Q)		
	0.98	2	0.2	200	25			PNE20020ER (-Q)		
	0.95	2	1	200	25				PNE20020EP (-Q)	
	0.98	3	1	200	30				PNE20030EP (-Q)	
	0.93	4	1	200	30				PNE20040EP (-Q)	
	0.95	5	1	200	30				PNE20050EP (-Q)	
	0.93	4	1	200	30					PNE20040EPE (-Q)
	0.94	6	1	200	30					PNE20060EPE (-Q)
	0.95	8	1	200	30					PNE20080EPE (-Q)
	0.96	10	1	200	30					PNE200100EPE (-Q)
	0.98	2x2	1	200	25					PNE20040CPE (-Q)
	0.94	2x3	1	200	30					PNE20060CPE (-Q)
	0.93	2x4	1	200	30					PNE20080CPE (-Q)
	0.95	2x5	1	200	30					PNE200100CPE (-Q)
400	1.1	1	1	400	1500			PNS40010AER (-Q)		
650	1.2	1	1	650	65			PNU65010ER (-Q)		
	1.2	1	1	650	65				PNU65010EP (-Q)	
	1.2	2	1	650	65				PNU65020EP (-Q)	
	1.2	3	1	650	70				PNU65030EP (-Q)	

						Package	D2PAK (R2P) (SOT8018)
							
							Size (mm)
							P _{tot} (mW) @ 6cm ² cathode pad
							8.8 x 10.35 x 4.46
							2400
650	1.55	10	5	650	60	 aaa-037872	PNU650100EJ (-Q)
	2.40	10	5	650	30		PNE650100EJ (-Q)
	1.55	15	5	650	60		PNU650150EJ (-Q)
	2.40	15	5	650	30		PNE650150EJ (-Q)
	1.55	20	5	650	60		PNU650200EJ (-Q)
	2.40	20	5	650	30		PNE650200EJ (-Q)
	1.68	15	5	650	60		PNU650150AEJ (-Q)
	1.70	20	5	650	60		PNU650200AEJ (-Q)
	1.80	30	5	650	60		PNU650300AEJ (-Q)

Nomenclature recovery rectifiers automotive grade types

PNE 200 10 E R

Recovery time indicator:

PNE = hyperfast recovery time
PNU = ultrafast recovery time
PNS = standard recovery time

Max. reverse voltage:

200 = 200 V
400 = 400 V
650 = 650 V

Cont. Forward current:

10 = 1.0 A
20 = 2.0 A
50 = 5.0 A
100 = 10.0 A

Package indicator:

R = CFP3 (SOD123W)
P = CFP5 (SOD128)
PE = CFP15B (SOT1289B)
XD = CFP2-HP (SOD323HP)

Configuration:

E = single
C = dual common cathode

SiC Schottky diodes

Key features

- › Zero forward and reverse recovery
- › Temperature independent switching performance
- › Fast and smooth switching performance
- › High I_{FSM} capability
- › Low leakage current
- › Easy to parallel / positive temperature coefficient
- › Outstanding figure-of-merit ($Q_C \times V_F$)
- › Thermal stability up to 175 °C junction temperature
- › AEC-Q101 qualification

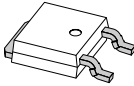
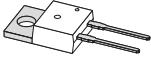
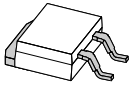
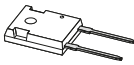
Key benefits

- › High power density
- › Reduced system cost
- › System miniaturization
- › High temperature operation
- › Reduced EMI
- › Increased ruggedness and reliability

Key applications

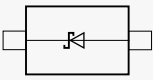
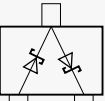
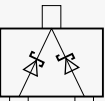
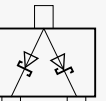
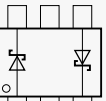
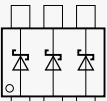
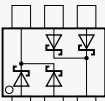
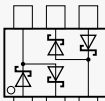
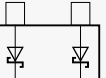
- › Consumer and industrial power supplies / PFC
- › DC-DC-converter
- › High frequency AC-DC converter
- › Battery charging systems
- › Base station power supply (5G)
- › Photovoltaic power converter
- › Traction inverter
- › On board charger

types in **bold** represent new products

Type name	Package	V_R max (V)	I_F max	I_{FSM} max	P_{tot} max
PSC1065H	 DPAK (TO-252-2)	650	10	440	58
PSC1065H-Q					
PSC0665K	 TO-220-2	650	6	300	37
PSC1065K		650	10	440	65
PSC1665J	 D2PAK (TO-263-2)	650	16	650	90
PSC2065J		650	20	780	98
PSC1665L	 TO-247-2	650	16	650	95
PSC2065L		650	20	780	115

General purpose Schottky diodes <= 250 mA

I_F max (mA)	V_R max (V)	V_F max (mV)	@ I_F (mA)	I_R max (μA)	@ V_R (V)	Package	SOD80C (MiniMelf)	SOD68 (DO-34)	SOT23	SOT143B	SOD123		
													
						Size (mm)	3.5 x 1.5 x 1.5	3.04 x 1.6 x 0.55	2.9 x 1.3 x 1.0	2.9 x 1.3 x 1.0	2.7 x 1.6 x 1.2		
P_{tot} (mW)	300	500	250	250	357								
70	70	750	10	0.1	50	Single			BAS70 (-Q)				
						Dual series			BAS70-04 (-Q)				
						Dual c.c.			BAS70-05 (-Q)				
						Dual c.a.			BAS70-06 (-Q)				
						Dual isolated				BAS70-07 (-Q)			
						Triple isolated							
100	30	350	10	10	10	Quad 2x series							
		450	10	0.5	10	Single							
120	40	500	10	1	30	Single							
						Single							
						Single							
						Single			BAS40 (-Q)				
						Dual series			BAS40-04 (-Q)				
						Dual c.c.			BAS40-05 (-Q)				
						Dual c.a.			BAS40-06 (-Q)				
						Dual isolated				BAS40-07 (-Q)			
200	30	300	10	30	10	Triple isolated							
						Single							
						Single							
		340	10	2	25	Dual series			BAT754 (-Q)				
						Dual c.c.			BAT754S (-Q)				
						Dual c.a.			BAT754C (-Q)				
						Triple isolated							
		400	10	2	25	Single	BAS85	BAT85	BAT754A (-Q)		BAT54GW		
						Dual series							
						Dual c.c.			BAT54S (-Q)				
						Dual c.a.			BAT54C (-Q)				
		480	200	50	30	Single			BAT54A (-Q)				
		500	200	2.5	30	Single							
		600	200	1	10	Single							
				2	30	Single							
	40	800	100	1	25	Single+G37:G43							
						Dual series							
						Dual isolated				BAT74			
						Dual c.c.							
						Dual c.a.							
						Triple isolated							
		300	10	15	30	Quad 2x Isolated							
						Single			BAT721 (-Q)				
						Dual series			BAT721S (-Q)				
						Dual c.c.			BAT721C (-Q)				
		500	100	0.5	25	Single							
						Single							
						Single							
		550	100	0.5	25	Dual series							
						Dual c.c.							
						Dual c.a.			BAT721A (-Q)				
		200	15	30	Single								
		600	200	10	40	Single							
250	100	350	10	0.5	1.5	Single							
		850	250	0.5	1.5	Single					BAT46GW (-Q)		
		960	150	9	100	Single							
420	40	500	100	0.5	25	Single							
500	40	550	0.5	100	35	Single			BAT720 (-Q)				

Single	Dual series	Dual c.c.	Dual c.a.	Dual isolated	Triple isolated	Quad c.c./c.c.	Quad 2x series
 brb122	 brb124	 brb125	 brb126	 brb127	 brb129	 brb130	 brb131
 brb123				 brb128			

Automotive-qualified										
SOD123F	SOT323 (SC-70)	SOT363 (SC-88)	SOD323F (SC-90)	SOD323 (SC-76)	SOD523 (SC-79)	DFN1006-2 (SOD882)/ DFN1006-3 (SOT883)	DFN1006 BD-2 (SOD882BD)	DFN1110 D-3 (SOT8015)	DFN1412 D-3 (SOT8009)	
										
2.6 x 1.6 x 1.1	2.0 x 1.25 x 0.95	2.0 x 1.25 x 0.95	1.7 x 1.25 x 0.7	1.7 x 1.25 x 0.95	1.2 x 0.8 x 0.6	1.0 x 0.6 x 0.48	1 x 0.6 x 0.47	1.1 x 1 x 0.47	1.4 x 1.2 x 0.47	
375	250	300	385	400	275	250	640	400	415	
BAS70H (-Q)	BAS70W (-Q) BAS70-04W (-Q) BAS70-05W (-Q) BAS70-06W (-Q)			1PS76SB70 (-Q)	1PS79SB70 (-Q)	BAS70L (-Q)	BAS70LS (-Q)			
		BAS70-07S (-Q) BAS70VY (-Q) BAS70XY (-Q)								
						RB521CS30L (-Q) RB520CS30L (-Q)				
				RB751V40 (-Q) RB751V45 (-Q) 1PS76SB40 (-Q)	RB751S40 (-Q) 1PS79SB40 (-Q)	RB751CS40 (-Q) BAS40L (-Q)	BAS40LS (-Q)			
BAS40H (-Q)	BAS40W (-Q) BAS40-04W (-Q) BAS40-05W (-Q) BAS40-06W (-Q)	BAS40DY (-Q) 1PS88SB48 (-Q)								
		BAS40VY (-Q) BAS40XY (-Q)								
					1PS79SB31 (-Q)					
		BAT754L								
			BAT54J (-Q)	1PS76SB10 (-Q) BAT54HGW (-Q)	1PS79SB10 (-Q)	BAT54L (-Q)				
		BAT54CY (-Q)				BAT54CM (-Q)				
							BAT32ALS (-Q)			
					RB521S30 (-Q) RB520S30 (-Q)					
BAT54H (-Q)	BAT54W (-Q) BAT54SW (-Q)						BAT32LS (-Q) BAT54LS (-Q)	BAT54QB (-Q)	BAT54QC (-Q)	
	BAT54CW (-Q) BAT54AW (-Q)	BAT74S (-Q) BAT54VY (-Q) BAT54XY (-Q)								
				1PS76SB21 (-Q)						
					1PS79SB30 (-Q)					
	BAT854W (-Q) BAT854SW (-Q) BAT854CW (-Q) BAT854AW (-Q)									
				1PS76SB21 (-Q)						
BAT46WH (-Q)			BAT46WJ (-Q)				BAT42LS (-Q)			
							BAT46LS (-Q)			
					RB530S40 (-Q)					

Low capacitance Schottky diodes

						Automotive-qualified					
I _F max (mA)	V _A max (V)	V _F max (mV) @ I _F (mA)	C _j max (pF) @ V _R = 0 V	Package	Size (mm)	SOT23	SOT323 (SC-70)	SOT363 (SC-88)	SOD323 (SC-76)	SOD523 (SC-79)	DFN1006-2 (SOD882)
											
						2.9 x 1.3 x 1.0	2.0 x 1.25 x 0.95	2.0 x 1.25 x 0.95	1.7 x 1.25 x 0.95	1.2 x 0.8 x 0.6	1.0 x 0.6 x 0.48
30	4	450	1	P _{tot} (mW)		250	250	300	400	500	250
				Single		BAT17			1PS76SB17	1PS79SB17	
				Triple isolated							
				Dual series		PMBD353 PMBD354 ¹⁾					
	15	340	1	Single			1PS70SB82				1PS10SB82
				Triple isolated				1PS88SB82			
				Dual series			1PS70SB84				
				Dual c.c.			1PS70SB85				
				Dual c.a.			1PS70SB86				

Schottky rectifiers - leadless DSN/DFN packages

I_F max (A)	V_F max (V)	V_F max (mV) @ I_F max	I_R max (mA) @ V_R max	Package	DSN0603-2 (SOD962)	DSN1006-2 (SOD993)	DSN1006U-2 (SOD995)
				Size (mm)			
				P_{tot} (mW) @ 1 cm ²	0.6 x 0.3 x 0.3	1.0 x 0.6 x 0.28	1.0 x 0.6 x 0.28
				Optimization	525	1.000	1.190
0.1	30	840	0.0008	Low I_R			
0.2	20	420	0.045	Low V_F	PMEG2002AESF		
		490	0.0035	Low I_R	PMEG2002ESF		
	30	470	0.08	Low V_F	PMEG3002AESF		
		480	0.05	low V_F			
		520	0.015	Low I_R			
		535	0.009	Low I_R	PMEG3002ESF		
	40	525	0.08	Low V_F	PMEG4002AESF		
		600	0.0065	Low I_R	PMEG4002ESF		
		600	0.01	low I_R			
	60	600	0.1	low V_F			
0.5	20	390	0.2	low V_F			
		410	0.3	low V_F			
		440	1.5	low V_F			
		500	0.03	low I_R			
		550	0.045	Low V_F	PMEG2005AESF		
	30	620	0.0035	Low I_R	PMEG2005ESF		
		500	0.5	low V_F			
		630	0.08	Low V_F	PMEG3005AESF		
		670	0.015	Low I_R			
		720	0.009	Low I_R	PMEG3005ESF		
	40	590	0.01	low I_R			
		820	0.08	Low V_F	PMEG4005AESF		
		880	0.0065	Low I_R	PMEG4005ESF		
1	20	375	1.9	low V_F			
		415	0.6	low V_F			
		490	0.2	low V_F			
	30	480	1.25	Low V_F		PMEG3010AESB	PMEG3010AESA
		565	0.045	Low I_R		PMEG3010ESB	
	40	505	0.115	Low V_F		PMEG4010AESB	
		600	0.02	low I_R			
		610	0.04	Low I_R		PMEG4010ESB	
	60	625	0.65	Low V_F		PMEG6010AESB	
		730	0.03	Low I_R		PMEG6010ESB	
1.5	20	420	0.9	low V_F			
	40	610	0.03	low I_R			
2	20	420	1.9	low V_F			
		450	0.9	low V_F			
	30	470	2.5	low V_F			
	40	535	0.1	low V_F			
	60	530	0.2	low V_F			
		575	0.25	low V_F			

Automotive-qualified						
DFN2020-3 (SOT1061)	DFN2020D-3 (SOT1061D)	DFN1608D-2 (SOD1608)	DFN1006-2 (SOD882)	DFN1006D-2 (SOD882D)	DFN1006BD-2 (SOD882BD)	DFN0603-2 (SOD972E)
						
2.0 x 2.0 x 0.62	2.0 x 2.0 x 0.62	1.6 x 0.8 x 0.37	1.0 x 0.6 x 0.48	1.0 x 0.6 x 0.37	1.0 x 0.6 x 0.47	0.63 x 0.33 x 0.25
960	960	780	565	660	640	570
						PMEG3001EEF
			PMEG3002AEL (-Q)	PMEG3002AELD (-Q)		PMEG3002EEF
			PMEG4002EL (-Q)	PMEG4002ELD (-Q)		
			PMEG6002EL (-Q)	PMEG6002ELD (-Q)		
				PMEG2005BELD (-Q)		
		PMEG2005EPK (-Q)				
			PMEG2005AEL (-Q)	PMEG2005AELD (-Q)		
			PMEG2005EL (-Q)	PMEG2005ELD (-Q)		
			PMEG3005EL (-Q)	PMEG3005ELD (-Q)	PMEG3005ELS (-Q)	
						PMEG3005EEF
		PMEG4005EPK (-Q)				
PMEG2010EPA (-Q)	PMEG2010EPAS (-Q)					
		PMEG2010EPK (-Q)				
				PMEG2010BELD (-Q)		
		PMEG4010EPK (-Q)				
		PMEG2015EPK (-Q)				
		PMEG4015EPK (-Q)				
PMEG2020EPA (-Q)	PMEG2020EPAS (-Q)					
		PMEG2020EPK (-Q)				
PMEG3020EPA (-Q)	PMEG3020EPAS (-Q)					
PMEG4020EPA (-Q)	PMEG4020EPAS (-Q)					
		PMEG4020EPK (-Q)				
PMEG6020EPA (-Q)	PMEG6020EPAS (-Q)					

Power Schottky rectifiers - clip-bond packages

Types in **bold** represent new products

					Automotive-qualified					
I_F max (A)	V_R max (V)	V_F max (mV) @ I_F max	I_R max (mA) @ V_R max	Package	CFP15 (SOT1289)	CFP15B (SOT1289B)	CFP5 (SOD128)	CFP3-HP (SOD123HP)	CFP3 (SOD123W)	CFP2-HP (SOD323HP)
										
				Size (mm)	5.8 x 4.3 x 0.78	5.8 x 4.3 x 0.95	3.8 x 2.5 x 1.0	2.8 x 1.8 x 0.9	2.6 x 1.7 x 1.0	2.2 x 1.3 x 0.68
				P_{tot} (mW) @ 1 cm ²	2150	2150	1200	1300	1150	1200
Optimization										
1	20	340	1	Low V_F					PMEG2010ER (-Q)	
		450	0.05	Low I_R					PMEG2010BER (-Q)	
		500	50	Low V_F						PMEG2010EXD (-Q)
	30	360	1.5	Low V_F			PMEG3010EP (-Q)		PMEG3010ER (-Q)	
		450	0.05	Low I_R			PMEG3010BEP (-Q)	PMEG3010EXE (-Q)	PMEG3010BER (-Q)	
		500	60	Low V_F						PMEG3010EXD (-Q)
	40	490	0.05	Low V_F			PMEG4010EP (-Q)	PMEG4010EXE (-Q)	PMEG4010ER (-Q)	
				Low V_F			PMEG4010ETP (-Q)		PMEG4010ETR (-Q)	
		460	0.022	Low V_F , Low Q_{rr}					PMEG40T10ER (-Q) ¹⁾	
	45	530	50	Low V_F						PMEG4010EXD (-Q)
		520	0.02	Low V_F , Low Q_{rr}						PMEG45T10EXD (-Q) ¹⁾
	60	530	0.06	Low V_F			PMEG6010EP (-Q)	PMEG6010EXE (-Q)	PMEG6010ER (-Q)	
				Low V_F					PMEG6010ETR (-Q)	
		580	50	Low V_F						PMEG6010EXD (-Q)
		590	0.0008	Low I_{R1} , Low Q_{rr}			PMEG60T10ELP (-Q) ¹⁾			
		600	0.00065	Low I_{R1} , Low Q_{rr}					PMEG60T10ELR (-Q) ¹⁾	
		640	0.0004	Low I_{R1} , Low Q_{rr}						PMEG60T10ELXD (-Q) ¹⁾
	100	660	0.0003	Low I_R					PMEG6010ELR (-Q)	
		750	0.0009	Low I_{R1} , Low Q_{rr}					PMEG100T10ELR (-Q) ¹⁾	
		770	0.00015	Low I_R					PMEG10010ELR (-Q)	
		780	0.00015	Low I_R				PMEG10010ELXE (-Q)		
		795	0.0005	Low I_{R1} , Low Q_{rr}						PMEG100T10ELXD (-Q) ¹⁾
2		520	0.05	Low I_R					PMEG2020CER (-Q)	
	580	50	Low V_F						PMEG2020EXD (-Q)	
	30	360	3	Low V_F			PMEG3020EP (-Q)			
		420	1.5	Low V_F			PMEG3020CEP (-Q)		PMEG3020ER (-Q)	
		450	0.1	Low I_R			PMEG3020BEP (-Q)			
	520	0.05	Low I_R			PMEG3020DEP (-Q)		PMEG3020BER (-Q)		
							PMEG3020EXE (-Q)	PMEG3020CER (-Q)		
	580	60	Low V_F						PMEG3020EXD (-Q)	
	40	490	0.1	Low V_F			PMEG4020EP (-Q)		PMEG4020ER (-Q)	
				Low V_F			PMEG4020ETP (-Q)		PMEG4020ETR (-Q)	
570		0.05	Low I_R				PMEG4020EXE (-Q)	PMEG4020CER (-Q)		
45	515	0.022	Low V_F , Low Q_{rr}			PMEG40T20EP (-Q) ¹⁾		PMEG40T20ER (-Q) ¹⁾		
	610	50	Low V_F						PMEG4020EXD (-Q)	
	560	0.025	Low V_F , Low Q_{rr}						PMEG45T20EXD (-Q) ¹⁾	
60	530	0.2	Low V_F			PMEG6020EP (-Q)		PMEG6020ER (-Q)		
			Low V_F			PMEG6020ETP (-Q)		PMEG6020ETR (-Q)		
	620	0.0012	Low I_{R1} , Low Q_{rr}			PMEG60T20ELP (-Q) ¹⁾		PMEG60T20ELR (-Q) ¹⁾		
	650	0.06	Low I_R				PMEG6020EXE (-Q)	PMEG6020CER (-Q)		
	670	0.0007	Low I_R			PMEG6020AELP (-Q)		PMEG6020AELR (-Q)		
	700	0.00047	Low I_{R1} , Low Q_{rr}						PMEG60T20ELXD (-Q) ¹⁾	
	720	50	Low V_F						PMEG6020EXD (-Q)	
	760	0.0003	Low I_R					PMEG6020ELR (-Q)		
	100	800	0.00125	Low I_{R1} , Low Q_{rr}			PMEG100T20ELP (-Q) ¹⁾		PMEG100T20ELR (-Q) ¹⁾	
		770	0.0003	Low I_R			PMEG10020AELP (-Q)		PMEG10020AELR (-Q)	
830		0.00015	Low I_R					PMEG10020ELR (-Q)		
840	0.00015	Low I_R				PMEG10020ELXE (-Q)				
880	0.0006	Low I_{R1} , Low Q_{rr}						PMEG100T20ELXD (-Q) ¹⁾		
3	20	580	0.05	Low I_R					PMEG2030CER (-Q)	
		500	0.1	Low V_F			PMEG3030CEP (-Q)			
		580	0.05	Low I_R				PMEG3030EXE (-Q)	PMEG3030CER (-Q)	
	30	360	5	Low V_F			PMEG3030EP (-Q)			
		450	0.15	Low I_R		PMEG030V030EPE (-Q)	PMEG3030BEP (-Q)			
		490	0.12	Low V_F		PMEG040V030EPE (-Q)				
	40		0.2	Low V_F			PMEG4030EP (-Q)			
				Low V_F			PMEG4030ETP (-Q)			
		525	0.028	Low V_F , Low Q_{rr}			PMEG40T30EP (-Q) ¹⁾		PMEG40T30ER (-Q) ¹⁾	
	40	540	0.1	Low V_F			PMEG4030CEP (-Q)		PMEG4030ER (-Q)	
			Low V_F					PMEG4030ETR (-Q)		
630		0.05	Low I_R				PMEG4030EXE (-Q)	PMEG4030CER (-Q)		
520	0.12	Low V_F				PMEG4030AEXE (-Q)				

¹⁾ Trench Schottky technology

Power Schottky rectifiers - clip-bond packages

Types in **bold** represent new products

					Automotive-qualified						
I _F max (A)	V _R max (V)	V _F max (mV) @ I _F max	I _R max (mA) @ V _R max	Package	CFP15 (SOT1289)	CFP15B (SOT1289B)	CFP5 (SOD128)	CFP3-HP (SOD123HP)	CFP3 (SOD123W)	CFP2-HP (SOD323HP)	
											
				Size (mm)	5.8 x 4.3 x 0.78	5.8 x 4.3 x 0.95	3.8 x 2.5 x 1.0	2.8 x 1.8 x 0.9	2.6 x 1.7 x 1.0	2.2 x 1.3 x 0.68	
				P _{tot} (mW) @ 1 cm ²	2150	2150	1200	1300	1150	1200	
Optimization											
3	45	480	0.044	Low V _F , Low Q _{rr}	PMEG045T030EPD ¹⁾						
	50	530	0.1	Low V _F		PMEG050V030EPE (-Q)					
	60	475	0.4	Low V _F			PMEG6030EVP (-Q)				
		530	0.2	Low V _F		PMEG060V030EPE (-Q)	PMEG6030EP (-Q)				
				Low V _F			PMEG6030ETP (-Q)				
		560	0.18	Low V _F				PMEG6030AEXE (-Q)			
		600	0.15	Low V _F			PMEG6030CEP (-Q)				
	620	0.0018			PMEG060T030ELPE (-Q) ¹⁾	PMEG60T30ELP (-Q) ¹⁾		PMEG60T30ELR (-Q) ¹⁾			
	670	0.001	Low I _R			PMEG6030ELP (-Q)					
	750	0.0007	Low I _R			PMEG6030CELP (-Q)					
	760	0.06	Low I _R				PMEG6030EXE (-Q)	PMEG6030CER (-Q)			
	100	800	0.00175	Low I _R , Low Q _{rr}			PMEG100T30ELP (-Q) ¹⁾		PMEG100T30ELR (-Q) ¹⁾		
		770	0.00045	Low I _R			PMEG10030ELP (-Q)				
		710	0.0025	Low I _R , Low Q _{rr}		PMEG100T030ELPE (-Q) ¹⁾					
		850	0.0003	Low I _R			PMEG10030CELP (-Q)				
2x2		60	620	0.0012	Low I _R , Low Q _{rr}		PMEG060T040CLPE (-Q) ¹⁾				
4.5	60	530	0.4	Low V _F			PMEG6045ETP (-Q)				
5	30	360	8	Low V _F			PMEG3050EP (-Q)				
		450	0.25	Low I _R			PMEG3050BEP (-Q)				
		500	0.15	Low V _F		PMEG030V050EPE (-Q)					
		560	0.1	Low V _F			PMEG3050CEP (-Q)				
		490	0.3	Low V _F			PMEG4050EP (-Q)				
	40		0.3	Low V _F			PMEG4050ETP (-Q)				
		520	0.12	Low V _F		PMEG040V050EPE (-Q)					
		525	0.041	Low V _F , Low Q _{rr}			PMEG40T50EP (-Q)1)				
		620	0.1	Low V _F			PMEG4050CEP (-Q)				
		490	0.3	Low V _F		PMEG045V050EPE (-Q)					
	60	525	0.044	Low V _F , Low Q _{rr}	PMEG045T050EPD ¹⁾						
		560	0.4	Low V _F		PMEG060V050EPE (-Q)					
		690	0.0018	Low I _R , Low Q _{rr}		PMEG060T050ELPE (-Q) ¹⁾	PMEG60T50ELP (-Q) ¹⁾				
		720	0.15	Low V _F			PMEG6050CEP (-Q)				
		780	0.001	Low I _R			PMEG6050ELP (-Q)				
		895	0.00175	Low I _R , Low Q _{rr}			PMEG100T50ELP (-Q) ¹⁾				
		810	0.0025	Low I _R , Low Q _{rr}		PMEG100T050ELPE (-Q) ¹⁾					
	100	880	0.00045	Low I _R			PMEG10050ELP (-Q)				
2x3	60	620	0.0018	Low I _R , Low Q _{rr}		PMEG060T060CLPE (-Q) ¹⁾					
6	100	840	0.00045	Low I _R		PMEG100V060EPE (-Q)					
2x4	60	660	0.0018	Low I _R , Low Q _{rr}		PMEG060T080CLPE (-Q) ¹⁾					
8	100	850	0.0005	Low I _R		PMEG100V080EPE (-Q)					
		810	0.004	Low I _R , Low Q _{rr}		PMEG100T080ELPE (-Q) ¹⁾					
		690	0.0018	Low I _R , Low Q _{rr}		PMEG060T100CLPE (-Q) ¹⁾					
2x5	60	690	0.0018	Low I _R , Low Q _{rr}		PMEG060T100CLPE (-Q) ¹⁾					
10	45	490	0.6	Low V _F		PMEG045V100EPE (-Q)					
		540	0.5	Low V _F		PMEG045V100EIP (-Q)					
		545	0.08	Low V _F , Low Q _{rr}		PMEG045T100EPE (-Q) ¹⁾					
	60	560	0.7	Low V _F		PMEG060V100EPE (-Q)					
		850	0.0008	Low I _R		PMEG100V100EPE (-Q)					
		810	0.005	Low I _R , Low Q _{rr}		PMEG100T100ELPE (-Q) ¹⁾					
12	100	810	0.006	Low I _R , Low Q _{rr}		PMEG100T120ELPE ¹⁾					
15	45	570	1	Low V _F		PMEG045V150EPE (-Q)					
		550	0.1	Low V _F , Low Q _{rr}	PMEG045T150EPD ¹⁾						
		580		Low V _F , Low Q _{rr}	PMEG45T15EPD ¹⁾						
		570	0.098	Low V _F , Low Q _{rr}	PMEG045T150EIPD ¹⁾						
	50	570	1	Low V _F		PMEG050V150EPE (-Q)					
		550	0.1	Low V _F , Low Q _{rr}	PMEG050T150EPD ¹⁾						
		570	0.2	Low V _F , Low Q _{rr}	PMEG050T150EIPD ¹⁾						
20	100	820	0.008	Low I _R , Low Q _{rr}		PMEG100T150ELPE ¹⁾					
		830	0.01	Low I _R , Low Q _{rr}		PMEG100T200ELPE ¹⁾					

Schottky rectifiers - leaded packages

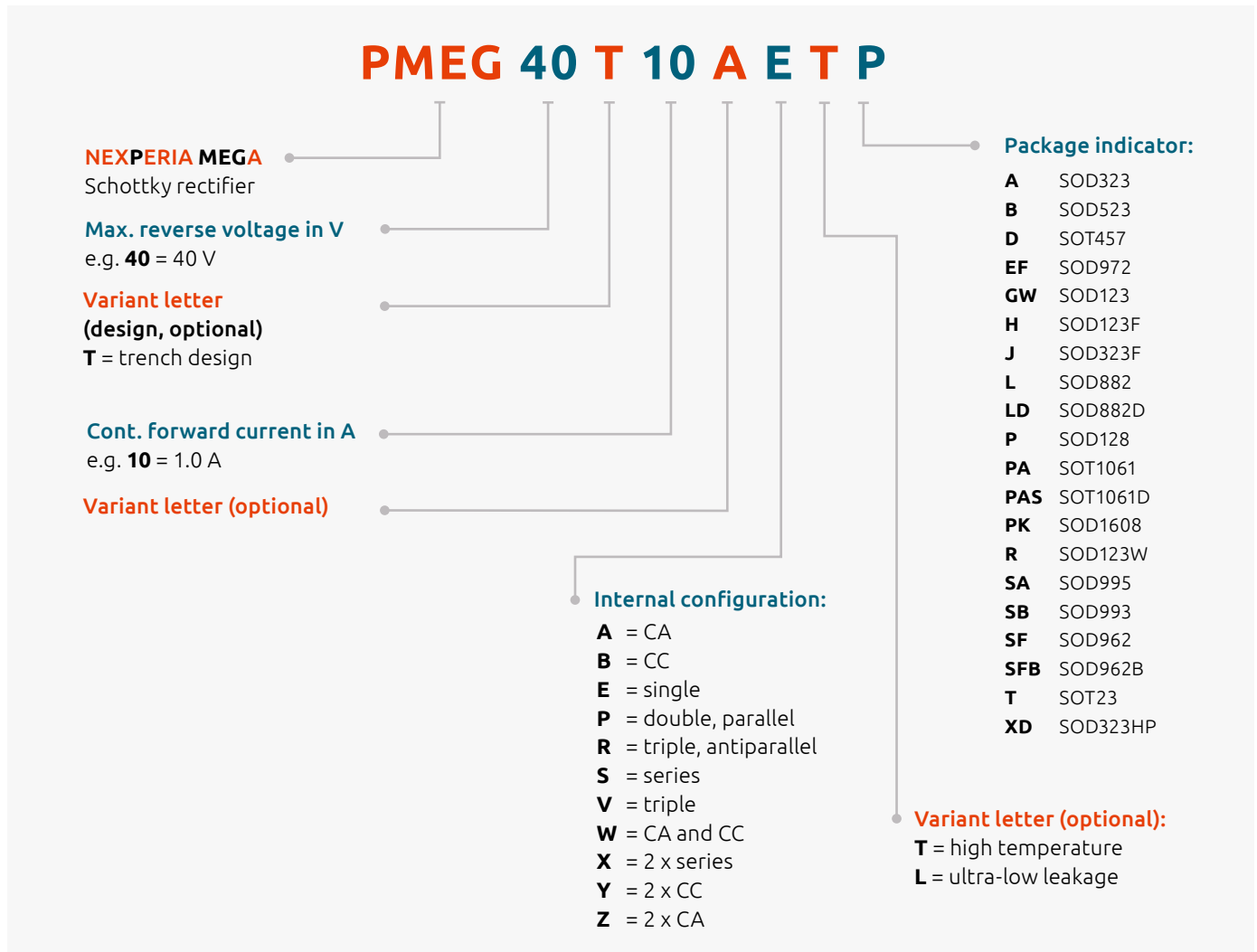
					Automotive-qualified							
I_F max (A)	V_R max (V)	V_F max (mV) @ I_F max	I_R max (mA) @ V_R max	Package	SOT457 (SC-74)	SOT23	SOD123	SOD123F	SOT323 (SC-70)	SOD323F (SC-90)	SOD323 (SC-76)	SOD523 (SC-79)
												
				Size (mm)	2.9 × 1.5 × 1.0	2.9 × 1.3 × 1.0	2.7 × 1.6 × 1.2	2.6 × 1.6 × 1.1	2.0 × 1.25 × 0.95	1.7 × 1.25 × 0.7	1.7 × 1.25 × 0.95	1.2 × 0.8 × 0.6
				P_{tot} (mW) @ 1 cm ²	540	420	660	830	400	830	570	500
Optimization												
0.2	30	480	0.05	Low V_F						PMEG3002EJ (-Q)		
	40	600	0.01	Low I_R						PMEG4002EJ		
	60	600	0.1	Low V_F						PMEG6002EJ (-Q)	PMEG3010BEA (-Q)	
0.5	20	390	0.2	Low V_F		PMEG2005ET (-Q)	PMEG2005EGW (-Q)	PMEG2005EH (-Q)		PMEG2005EJ (-Q)		
		480	0.03	Low I_R								
	30	430	0.15	Low V_F		PMEG3005ET (-Q)	PMEG3005EGW (-Q)	PMEG3005EH (-Q)		PMEG3005EJ (-Q)	PMEG4010BEA (-Q)	
		500	0.5	Low V_F							PMEG4010CEA	
		470	0.1	Low V_F		PMEG4005ET (-Q)	PMEG4005EGW (-Q)	PMEG4005EH (-Q)		PMEG4005EJ (-Q)		
	40	550	1.1	Low V_F		BAT720 (-Q)			1PS70SB20		PMEG2015EA (-Q)	
		640	0.008	Low I_R						PMEG4005CEJ		
0.75	40	740	0.008	Low I_R							PMEG1020EA (-Q)	
1		430	0.2	Low V_F		PMEG2010AET (-Q)		PMEG2010AEH (-Q)			PMEG2020AEA (-Q)	
		500	0.2	Low V_F		PMEG2010ET (-Q)		PMEG2010EH (-Q)		PMEG2010EJ (-Q)		
		550	0.07	Low I_R						PMEG2010AEJ (-Q)		
		620	1.5	Low V_F								PMEG2010AEB (-Q)
1		450	1	Low V_F	1PS74SB23							
		520	0.1	Low I_R				PMEG3010CEH (-Q)		PMEG3010CEJ (-Q)		
	30	560	0.15	Low V_F		PMEG3010ET (-Q)	PMEG3010EGW (-Q)	PMEG3010EH (-Q)			PMEG3010BEA (-Q)	
		680	0.5	Low V_F								PMEG3010EB (-Q)
		570	0.05	Low I_R			PMEG4010CEGW (-Q)	PMEG4010CEH (-Q)		PMEG4010CEJ (-Q)		
	40	640	0.05	Low V_F		PMEG4010ET (-Q)	PMEG4010EGW (-Q)	PMEG4010EH (-Q)		PMEG4010EJ (-Q)	PMEG4010BEA (-Q)	
		840	0.008	Low I_R							PMEG4010CEA (-Q)	
	60	660	0.05	Low I_R			PMEG6010CEGW (-Q)	PMEG6010CEH (-Q)		PMEG6010CEJ (-Q)		
1.5	20	660	0.2	Low I_R				PMEG2015EH (-Q)		PMEG2015EJ (-Q)	PMEG2015EA (-Q)	
	30	500	1	Low V_F				PMEG3015EH (-Q)		PMEG3015EJ (-Q)		
2	10	460	3	Low V_F				PMEG1020EH (-Q)		PMEG1020EJ (-Q)	PMEG1020EA (-Q)	
	20	525	0.2	Low V_F				PMEG2020EH (-Q)		PMEG2020EJ (-Q)	PMEG2020AEA (-Q)	
	30	620	1	Low V_F			PMEG3020EGW (-Q)	PMEG3020EH (-Q)		PMEG3020EJ (-Q)		
3	10	530	3	Low V_F				PMEG1030EH (-Q)		PMEG1030EJ (-Q)		

¹⁾ Trench Schottky technology

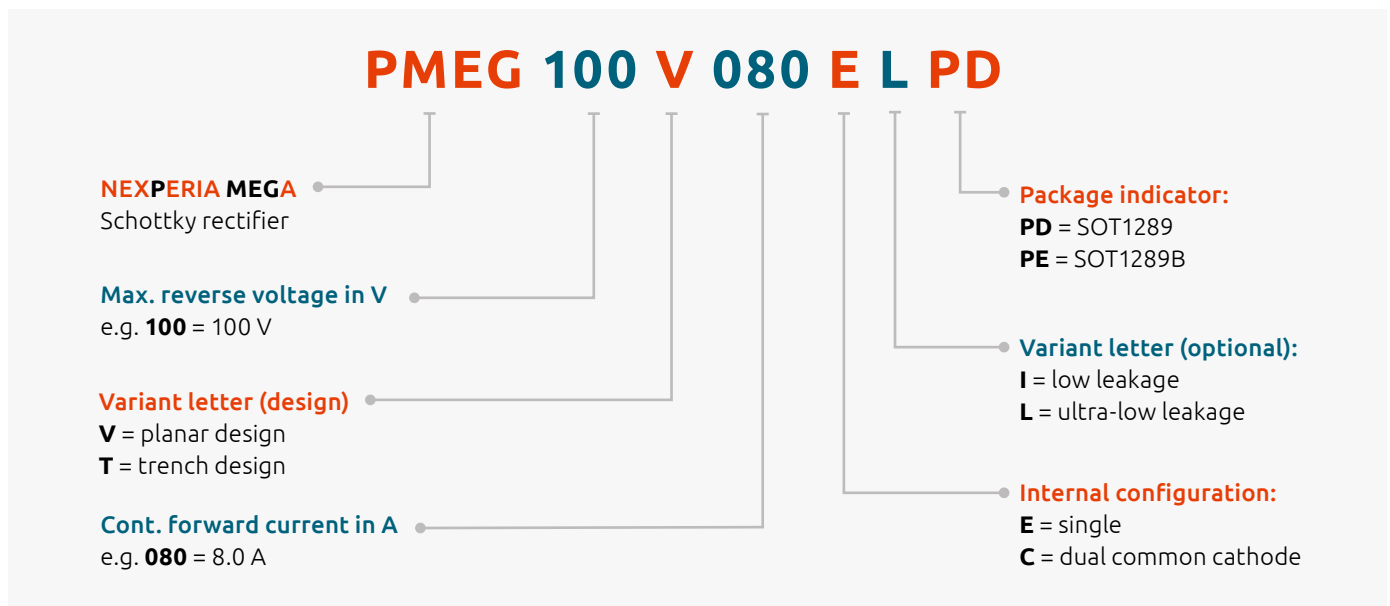
Dual Schottky rectifiers - leaded/leadless DFN packages

						Automotive-qualified				
I_F max (A)	V_R max (V)	V_F max (mV) @ I_F max	I_R max (mA) @ V_R max	Optimization	Package	SOT223 (SC-73)	SOT23	DFN2020-3 (SOT1061)	DFN2020D-3 (SOT1061D)	
										
					Size (mm)	6.5 x 3.5 x 1.65	2.9 x 1.3 x 1.0	2.0 x 2.0 x 0.62	2.0 x 2.0 x 0.63	
						P_{tot} (mW) @ 1 cm ²	1500	400	1000	1000
0.5	20	390	0.2	Low V_F			PMEG2005CT (-Q)			
	30	430	0.15	Low V_F			PMEG3005CT (-Q)			
	40	470	0.1	Low V_F			PMEG4005CT (-Q)			
1.0	25	450	1.0	Low V_F		BAT120S (-Q)				
				Low V_F		BAT120C (-Q)				
				Low V_F		BAT120A (-Q)				
	40	500	0.05	Low V_F				PMEG4010CPA (-Q)	PMEG4010CPAS (-Q)	
	60	540	0.06	Low V_F				PMEG6010CPA (-Q)	PMEG6010CPAS (-Q)	
		650	0.35	Low V_F		BAT160S (-Q)				
				Low V_F		BAT160C (-Q)				
				Low V_F		BAT160A (-Q)				
				Low V_F				PMEG2020CPA (-Q)	PMEG2020CPAS (-Q)	
	30	440	2.0	Low V_F				PMEG3020CPA (-Q)	PMEG3020CPAS (-Q)	

Nomenclature of Schottky rectifiers



Nomenclature of Schottky rectifiers in CFP15 and CFP15B power packages





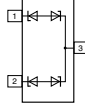
ESD protection, TVS, filtering and signal conditioning

3

Automotive ESD protection and TVS	74
Classic In-Vehicle Networks	74
Automotive Ethernet	75
Infotainment/SerDes	76
TVS diodes, 24 W/40 W	77
New MMBZ TVS diodes, lightning pulse	78
ESD protection	80
Low capacitance ESD protection for high-speed interfaces	80
General purpose ESD protection devices	83
EMI solutions with integrated protection	87
Common mode filters with integrated protection	87
Transient Voltage Surge Suppressor (TVS).....	88
TVS diodes for mobile applications	88
TVS diodes, 24 W/40 W	89
TVS 400 W	90
TVS 600 W	91
TVS 600 W	92
Nomenclatures	94
Automotive ESD protection nomenclature	94
ESD protection devices nomenclature	94
Multi-line ESD protection nomenclature	95
Common mode filters nomenclature	95
TVS protection nomenclature	95
MMBZ series nomenclature	95

Classic In-Vehicle Networks

Types in **bold** represent new products

Main Application	number of protected lines, bidirectional	V_{RWM} (V)	ESD rating max (kV) [1]	C_{line} typ (pF)	C_{line} max (pF)	I_{PPM} 8/20µs (A)	V_{CL} 8/20µs @ I_{PPM} (V)	Configuration	Type	Package	Size(mm)
LIN	1	24	30	14	17	3.5	42		PESD1IVN24A-Q	 SOD323 (SC-76)	1.7 x 1.25 x 0.95
		27	30	14	17	3	45		PESD1IVN27A-Q		
		24	30	14	17	3.5	42		PESD1IVN24L-Q	 DFN1006-2 (SOD882)	1.0 x 0.6 x 0.47
		27	30	14	17	3	45		PESD1IVN27L-Q		
		24	30	14	17	3.5	42		PESD1IVN24LS-Q	 DFN1006BD-2 (SOD882BD)	1.0 x 0.6 x 0.47
		27	30	14	17	3	45		PESD1IVN27LS-Q		
Classic IVNs single line protection devices	2	24	30	10	12	3.8	31		PESD1CANFD24LS-Q	 DFN1006BD-2 (SOD882BD)	1.0 x 0.6 x 0.47
		30	30	9.8	11.3	3.8	34		PESD1CANFD30LS-Q		
		33	27	9.5	11.0	3.5	36		PESD1CANFD33LS-Q		
		36	20	8.7	10	2.9	42		PESD1CANFD36LS-Q		
		24	30	10.0	11.5	3.8	31		PESD1CANFD24L-Q	 DFN1006-2 (SOD882)	1.0 x 0.6 x 0.47
		30	30	9.8	11.3	3.9	34		PESD1CANFD30L-Q		
		33	27	9.5	11.0	3.8	36		PESD1CANFD33L-Q		
		36	20	8.7	10.0	2.9	42		PESD1CANFD36L-Q		
CAN FlexRay		24	30	14	17	3.5	42		PESD2IVN24T-Q	 SOT23	2.9 x 1.3 x 1.0
		27	30	14	17	3	45		PESD2IVN27-T		
		24	30	14	17	3.5	42		PESD2IVN24-U	 SOT323	2.0 x 1.25 x 0.95
		27	30	14	17	3	45		PESD2IVN27-U		
		24	30	13.6	16	5.3	35		PESD2CAN24T-Q	 SOT23	2.9 x 1.3 x 1.0
		24	30	25	30	9	33.5		PESD2CAN24LT-Q		
		24	30	31	37	12	33.0		PESD2CAN24XLT-Q		
CAN-FD CAN FlexRay	2	24	15	3.2	3.5	1.9	43		PESD2CANFD24U-T		
			23	5.2	6	2.6	42		PESD2CANFD24VT-Q		
			30	9	10	4.0	41		PESD2CANFD24LT-Q		
		27	15	3.6	4	1.8	45		PESD2CANFD27U-T		
			20	5.2	6	2.5	44		PESD2CANFD27V-T		
			30	9	10	3.9	42		PESD2CANFD27L-T		
		36	15	3.6	4	2	45		PESD2CANFD36UT-Q		
			23	5.2	6	2	45		PESD2CANFD36VT-Q		
			30	9	10	2	45		PESD2CANFD36LT-Q		
		24	15	3.2	3.5	1.9	43		PESD2CANFD24U-U	 SOT323	2.0 x 1.25 x 0.95
			23	5.2	6	2.6	42		PESD2CANFD24V-U		
			30	9	10	4.0	41		PESD2CANFD24LU-Q		
		27	15	3.6	4	1.8	45		PESD2CANFD27U-U		
			20	5.2	6	2.5	44		PESD2CANFD27V-U		
			30	9	10	4.0	41		PESD2CANFD27L-U		
		36	15	3.6	4	2	45		PESD2CANFD36UU-Q		
			23	5.2	6	2	45		PESD2CANFD36VU-Q		
			30	9	10	2	45		PESD2CANFD36LU-Q		
		48	30	7.1	8.6	3.5	67		PESD2IVN48T-Q	 SOT23	2.9 x 1.3 x 1.0
		54	17	3,1	3,6	2,8	74		PESD2CANFD54VT-Q		
			30	5,1	6	4,0	73		PESD2CANFD54LT-Q		
		60	17	3,1	3,6	2,6	78		PESD2CANFD60VT-Q		
			24	5,2	6	4	77		PESD2CANFD60LT-Q		
		72	15	2,8	3,4	1,9	93		PESD2CANFD72VT-Q		
			20	4,5	5,4	3	94		PESD2CANFD72LT-Q		

Classic In-Vehicle Networks

Types in **bold** represent new products

Main Application	number of protected lines, bidirectional	V_{RWM} (V)	ESD rating max (kV) [1]	C_{line} typ (pF)	C_{line} max (pF)	I_{PPM} 8/20 μ s (A)	V_{CL} 8/20 μ s @ I_{PPM} (V)	Configuration	Type	Package	Size(mm)
CAN-FD CAN FlexRay	2	24	15	3.2	3.5	1.9	43		PESD2CANFD24UQB-Q	 DFN1110D-3 (SOT8015)	1.1 x 1.0 x 0.48
			23	5.2	6	2.6	42		PESD2CANFD24VQB-Q		
		27	15	3.6	4	1.8	45		PESD2CANFD27UQB-Q		
			20	5.2	6	2.5	44		PESD2CANFD27VQB-Q		
		33	17	4.1	4.5	2	38		PESD2CANFD33UQB-Q		
		36	12	3.9	4.3	1.6	44		PESD2CANFD36UQB-Q		
		36	20	5.4	6	2.3	43		PESD2CANFD36VQB-Q		
			20	8.7	10	2.9	42		PESD2CANFD36LQB-Q		
		24	15	3.2	3.5	1.9	43		PESD2CANFD24U-QC	 DFN1412D-3 (SOT8009)	1.4 x 1.2 x 0.48
			23	5.2	6	2.6	42		PESD2CANFD24VQC-Q		
		27	15	3.6	4	1.8	45		PESD2CANFD27U-QC		
			20	5.2	6	2.5	44		PESD2CANFD27V-QC		
		36	12	3.9	4.3	1.6	44		PESD2CANFD36UQC-Q		
			20	5.4	6.0	2.3	42		PESD2CANFD36VQC-Q		
		36	20	8.7	10.0	2.9	42		PESD2CANFD36LQC-Q		

ESD protection, TVS,
filtering and signal
conditioning

Automotive Ethernet

Types in **bold** represent new products

Main Application	Number of protected lines	V_{RWM} (V)	$V_{trigger}$ min(V)	ESD rating max (kV) [1]	C_{line} typ (pF)	C_{line} max (pF)	I_{PPM} max (μA)	Configuration	Type	Package	Size (mm)
100BASE-T1 1000BASE-T1	1	24	100	30	1.5	1.8	2.3		PESD1ETH1GLS-Q	 DFN1006BD-2 (SOD882BD)	1.0 x 0.6 x 0.48
					0.9	1.2	2.3		PESD1ETH1GXLS-Q		
	2				-	-	-		PESD2ETH1GT-Q	 SOT23	2.9 x 1.3 x 1.0
					1.1	1.3	2.3		PESD2ETH1GXT-Q		
					-	-	-		PESD2ETH100T-Q		
100BASE-T1											
10BASE-T1s	1	24	100	18	0.35	0.4	2.3		PESD1ETH10LS-Q	 DFN1006BD-2 (SOD882BD)	1.0 x 0.6 x 0.47
					0.35	0.4			PESD1ETH10L-Q	 DFN1006-2 (SOD882)	1.0 x 0.6 x 0.48
10/100/1000 Mbit/s Ethernet at the PHY	2	5	-	8	-	-	-		PESD2ETHX-Q	 SOT143B	2.9 x 1.3 x 1.0
			-	12	1.8	-	PESD2ETHAX-Q				
			-	8	1.3	1.5	-		PESD2ETHD-Q	 SOT457	2.9 x 1.5 x 1.0
			-	12	2	2.3	-		PESD2ETHAD-Q		
	1	5.5	-	10	0.4	0.55	2.5		PESD5V0F1BL-Q	 DFN1006-2 (SOD882)	1.0 x 0.6 x 0.48
			-	10	0.4	0.55	2.5		PESD5V0F1BLD-Q	 DFN1006D-2 (SOD882D)	1.0 x 0.6 x 0.37

Infotainment/SerDes

Types in **bold** represent new products

Main Application	Number of protected lines	V_{RWM} (V)	ESD rating max (kV) [1]	C_{line} typ (pF)	C_{line} max (pF)	I_{PPM} 8/20 μ s (A)	V_{CL} 8/20 μ s typ (V)	Configuration	Type	Package	Size (mm)
USBx HDMI LVDS SerDes GSML FPD Link Mgbit Ethernet	2	3.3	18	0.83	1	8	2.6 V @ 8 A		PESD2USB3UVT-Q		2.9 x 1.3 x 1.0
		3.3	8	0.56	0.7	4	3.3 V @ 8 A		PESD2USB3UXT-Q		
		5	22	0.76	0.9	10	2.4 V @ 8 A		PESD2USB5UVT-Q		
		5	8	0.47	0.6	4	3.3 V @ 8 A		PESD2USB5UXT-Q		
	4	3.3	15	0.29	0.34	7	3 V @ 5 A		PESD4USB3UTBR-Q		2.5 x 1.0 x 0.5
		5	15	0.29	0.34	7	3 V @ 5 A		PESD4USB5UTBR-Q		
		3.3	15	0.17	0.23	7	5 V @ 5 A		PESD4USB3BTBR-Q		
		5	15	0.17	0.23	7	5 V @ 5 A		PESD4USB5BTBR-Q		
		3.3	15	0.17	0.2	6.5	5.4		PESD4USB3BBTBR-Q		
		3.3	15	0.19	0.23	6.5	5.4		PESD4USB3BCTBR-Q		
		5	15	0.19	0.23	6.5	5.4		PESD4USB5BBTBR-Q		
		3.3	15	0.29	0.34	6.5	2.9		PESD4USB3UCTBR-Q		
		5	15	0.29	0.34	6.5	2.9		PESD4USB5UBTBR-Q		
		3.3	15	0.29	0.34	7	3 V @ 5 A		PESD4USB3UTBS-Q		2.5 x 1.0 x 0.5
		5	15	0.29	0.34	7	3 V @ 5 A		PESD4USB5UTBS-Q		
		3.3	15	0.17	0.23	7	5 V @ 5 A		PESD4USB3BTBS-Q		
		5	15	0.17	0.23	7	5 V @ 5 A		PESD4USB5BTBS-Q		
		3.3	15	0.23	0.3	6.5	5		PESD4USB3BBTBS-Q		
		5	15	0.23	0.3	6.5	5		PESD4USB5BBTBS-Q		
		3.3	15	0.4	0.5	6.5	3		PESD4USB3UBTBS-Q		
		5	15	0.4	0.5	6.5	3		PESD4USB5UBTBS-Q		
		3.3	15	0.29	0.34	7	3 V @ 5 A		PESD4USB3UTTS-Q		1.0 x 0.6 x 0.47
		5	15	0.29	0.34	7	3 V @ 5 A		PESD4USB5UTTS-Q		
		3.3	15	0.17	0.23	7	5 V @ 5 A		PESD4USB3BTTS-Q		
		5	15	0.17	0.23	7	5 V @ 5 A		PESD4USB5BTTS-Q		
		3.3	15	0.23	0.3	6.5	5.2		PESD4USB3BBTTS-Q		
		5	15	0.23	0.3	6.5	5.2		PESD4USB5BBTTS-Q		
		3.3	15	0.4	0.5	6.5	2.9		PESD4USB3UBTTS-Q		
		5	15	0.4	0.5	6.5	2.9		PESD4USB5UBTTS-Q		
		5	15		0.6	6.5	3.5V@8A TLP		PESD5V0C1ULS-Q		1.0 x 0.6 x 0.47
		5	15		0.3	6.5	5.4V@8A TLP		PESD5V0C1BLS-Q		
		5.5	15		0.6	6.5	3.5V@8A TLP		PESD5V5C1UL-Q		
		5.5	15		0.3	6.5	5.4V@8A TLP		PESD5V5C1BL-Q		
		5	15	0.5	0.6	5	3.4@6.5A		PESD5V0C2UM-Q		
		5	15		0.25	6.5	6		PESD5V0H1BLL-Q	DFN1006L-2 (SOD882L-1)	1.0 x 0.6 x 0.45
		5	15		0,25	6,25	5		PESD5V0H1BLG-Q	DFN1006LD-2 (SOD882LD-1)	1.0 x 0.6 x 0.45
		5	15		0,25	6,25	5		PESD5V0H2BFG-Q	DFN1006LD-3 (SOT8079LD-1)	1.0 x 0.6 x 0.45

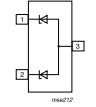
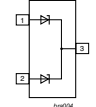
Infotainment/SerDes

Types in **bold** represent new products

Main Application	Number of protected lines	V_{RWM} (V)	ESD rating max (kV) ^[1]	C_{line} typ (pF)	C_{line} max (pF)	I_{PPM} 8/20µs (A)	V_{CL} 8/20µs typ (V)	Configuration	Type	Package	Size (mm)
Audio Interface Charger Port Antenna (NFC, WiFi) LVDS	1	4.5	30	65	78	34	13.2		PTVS4V5D1BL	 DFN1006-2 (SOD882)	1.0 x 0.6 x 0.48
		5.5	30	70	84	35	12.2		PTVS5V5D1BL		
		18	10	0.35	0.5		17		PESD18VF1BBL-Q		
		24	10	0.3	0.45		17		PESD24VF1BBL-Q		
		30	10	0.27	0.4		17		PESD30VF1BBL-Q		
		18	10	0.31	0.45	1	17		PESD18VF1BLS-Q	 DFN1006BD-2 (SOD882BD)	1.0 x 0.6 x 0.47
		24	10	0.28	0.4	1	17		PESD24VF1BLS-Q		
		30	10	0.28	0.4	1	17		PESD30VF1BLS-Q		
		32	10	0.28	0.4	1	17		PESD32VF1BLS-Q		
		5	30	35	45	12	14		PESD5V0S1BLD-Q		
		5	30	11	13	4.8	12.5		PESD5V0V1BLD-Q	 DFN1006D-2 (SOD882D)	1.0 x 0.6 x 0.37
		5.5	10	0.4	0.55	2.5	15		PESD5V0F1BLD-Q		
			10	0.4	0.55	2.5	15		PESD5V0F1BRDL-Q		

^[1] According to IEC 61000-4-2ESD protection, TVS,
filtering and signal
conditioning

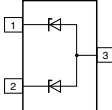
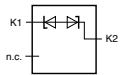
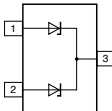
TVS diodes, 24 W/40 W

Power (W) (10 / 1000 µs waveform) ^[1]	V_{RWM} (V)	V_{min} (V) @ I	V_{typ} (V) @ I	V_{BR} max (V) @ I_R	I_R (mA)	ESD rating max (kV)	C_{typ} (pF)	V_{CL} max (V) @ I_{PP} ^[1]	I_{PP} (A) ^[1]	I_{BM} max (µA) @ V_{RWM}	Configuration	Type	Package	Size (mm)
24	3	5.32	5.6	5.88	20	30	210	8	3	5		MMBZ5V6AL-Q	 SOT23	2.9 x 1.3 x 1.0
		5.89	6.2	6.51	1	30	175	8.7	2.76	0.2		MMBZ6V2AL-Q		
	4.5	6.48	6.8	7.14	1	30	150	9.6	2.5	0.3		MMBZ6V8AL-Q		
	6	8.65	9.1	9.56	1	30	155	14	1.7	0.1		MMBZ9V1AL-Q		
	6.5	9.5	10	10.5	1	30	130	14.2	1.7	0.02		MMBZ10VAL-Q		
40	8.5	11.4	12	12.6	1	30	110	17	2.35	0.005		MMBZ12VAL-Q		
	12	14.25	15	15.75	1	30	85	21	1.9	0.005		MMBZ15VAL-Q		
	13	15.2	16	16.8	1	30	76	23	1.9	0.005		MMBZ16VAL-Q		
	13	15.68	16	16.32	1	30	76	23	1.9	0.005		MMBZ16VTAL-Q		
	14.5	17.1	18	18.9	1	30	70	25	1.6	0.005		MMBZ18VAL-Q		
	17	19	20	21	1	30	65	28	1.4	0.005		MMBZ20VAL-Q		
	22	25.65	27	28.35	1	30	48	40	1	0.005		MMBZ27VAL-Q		
	26	31.35	33	34.65	1	30	45	46	0.87	0.005		MMBZ33VAL-Q		
	8.5	11.4	12	12.6	1	30	110	17	2.35	0.005		MMBZ12VDL-Q		
	12.8	14.3	15	15.8	1	30	85	21.2	1.9	0.005		MMBZ15VDL-Q		
	14.5	17.1	18	18.9	1	30	70	25	1.6	0.005		MMBZ18VCL-Q		
	17	19	20	21	1	30	65	28	1.4	0.005		MMBZ20VCL-Q		
	22	25.65	27	28.35	1	30	48	38	1	0.005		MMBZ27VCL-Q		
	26	31.35	33	34.65	1	30	45	46	0.87	0.005		MMBZ33VCL-Q		

^[1] 10/1000µs according to IEC 61643-321

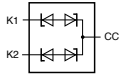
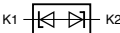
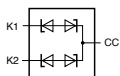
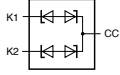
New MMBZ TVS diodes, lightning pulse

Types in **bold** represent new products

V_{RWM} (V)	V_{BR} min (V) @ I	V_{BR} typ (V) @ I	V_{BR} max (V) @ I_R	ESD rating max (kV)	C typ (pF)	V_{CL} typ (V) @ I_{PPM}	I_{PPM} 8/20 μ s (A) ^w	I_{RM} max (μ A) @ V_{RWM}	Configuration	Type	Package	Size (mm)			
3	5.1	5.6	6.1	30	200	13	18	0.5		MMBZ5V6A-T	 SOT23	2.9 x 1.3 x 1.0			
	5.7	6.2	6.7	30	88	12	8.8	0.2		MMBZ6V2A-T					
4.5	6.3	6.8	7.3	30	150	13.6	15	0.3		MMBZ6V8A-T					
6	8.65	9.1	9.56	30	60	20	10.5	0.05		MMBZ9V1A-T					
6.5	9.5	10	10.5	30	55	18	8	0.05		MMBZ10VA-T					
8.5	11.4	12	12.6	30	45	21	7	0.05		MMBZ12VA-T					
12	14.25	15	15.75	30	36	24	6	0.05		MMBZ15VA-T					
13	15.2	16	16.8	30	30	27	4.8	0.05		MMBZ16VA-T					
15	17.1	18	18.9	30	30	28	4.8	0.05		MMBZ18VA-T					
17	19	20	21	30	26	32	3.8	0.05		MMBZ20VA-T					
22	25.65	27	28.35	30	22	46	4.2	0.05		MMBZ27VA-T					
26	31.3	33	34.7	30	20	49	2.8	0.05		MMBZ33VA-T					
3	5.1	5.6	6.1	30	200	13	18	0.5					MMBZ5V6AT-Q		
3	5.7	6.2	6.7	30	88	12	8.8	0.2					MMBZ6V2AT-Q		
4.5	6.3	6.8	7.3	30	150	13.6	15	0.3	MMBZ6V8AT-Q						
6	8.65	9.1	9.56	30	60	20	10.5	0.05	MMBZ9V1AT-Q						
6.5	9.5	10	10.5	30	55	18	8	0.05	MMBZ10VAT-Q						
8.5	11.4	12	12.6	30	45	21	7	0.05	MMBZ12VAT-Q						
12	14.25	15	15.75	30	36	24	6	0.05	MMBZ15VAT-Q						
13	15.2	16	16.8	30	30	27	4.8	0.05	MMBZ16VAT-Q						
15	17.1	18	18.9	30	30	28	4.8	0.05	MMBZ18VAT-Q						
17	19	20	21	30	26	32	3.8	0.05	MMBZ20VAT-Q						
22	25.65	27	28.35	30	22	46	4.2	0.05	MMBZ27VAT-Q						
26	31.3	33	34.7	30	20	49	2.8	0.05	MMBZ33VAT-Q						
24	25	-	35	30	14	33	3.5	0.05			MMBZ27VC-T				
26	31.4	33	34.7	20	20	49	2.8	0.05			MMBZ33VC-T				
22	25.65	27	28.35	30	22	40	3.2	0.05		MMBZ27VCT-Q					
26	31.4	33	34.7	20	20	49	2.8	0.05		MMBZ33VCT-Q					

New MMBZ TVS diodes, lightning pulse

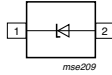
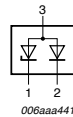
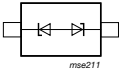
Types in **bold** represent new products

V_{RWM} (V)	V_{BR} min (V) @ I	V_{BR} typ (V) @ I	V_{BR} max (V) @ I_R	ESD rating max (kV)	C typ (pF)	V_{CL} typ (V) @ I_{PPM}	I_{PPM} 8/20 μ s (A) ^w	I_{RM} max (μ A) @ V_{RWM}	Configuration	Type	Package	Size (mm)
24	25.5	-	35.5	30	9	31	4	0.05		MMBZ27VB-U	 SOT323	2.0 x 1.25 x 0.95
27	28	33	38	30	9	31	3.9	0.05		MMBZ33VB-U		
24	25.5	-	35.5	30	9	31	4	0.05		MMBZ27VBU-Q		
27	28	33	38	30	9	31	3.9	0.05		MMBZ33VBU-Q		
24	25.5	-	35.5	30	14	33	3.5	0.05		MMBZ27VZ-LS	 DFN1006BD-2 (SOD882BD)	1.0 x 0.6 x 0.47
27	38	33	38	30	14	36	3	0.05		MMBZ33VZ-LS		
24	25.5	-	35.5	30	14	33	3.5	0.05		MMBZ27VZLS-Q		
27	38	33	38	30	14	36	3	0.05		MMBZ33VZLS-Q		
24	25.5	-	35.5	20	6	33	2.6	0.05		MMBZ27VB-QC	 DFN1412D-3 (SOT8009)	1.1 x 1.0 x 0.48
27	28	-	38	17	6	33	2.5	305		MMBZ33VB-QC		
24	25.5	-	35.5	20	6	33	2.6	0.05		MMBZ27VBQC-Q		
27	28	-	38	17	6	33	2.5	0.05		MMBZ33VBQC-Q		
24	25.5	-	30.5	20	6	33	2.6	0.05		MMBZ27VB-QB	 DFN1110D-3 (SOT8015)	1.4 x 1.2 x 0.48
27	28	-	38	17	6	33	2.5	0.05		MMBZ33VB-QB		
24	25.5	-	30.5	20	6	33	2.6	0.05		MMBZ27VBQB-Q		
27	28	-	38	17	6	33	2.5	0.05		MMBZ33VBQB-Q		

ESD protection, TVS,
filtering and signal
conditioning

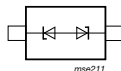
Low capacitance ESD protection for high-speed interfaces

Types in **bold red** are in development, types in **bold** represent new products

Unidirectional	Bidirectional	V_{RWM} (V)	C_{line} typ (pF)	ESD rating max (kV) ⁽¹⁾	Configuration	Type	Package	Size (mm)
1	0	5	0.45	20		PESD5V0C1USF	 DSN0603-2 (SOD962)	0.6 x 0.3 x 0.3
		6.5	0.45	20		PESD6V5C1USF		
		5	0.6	10		PESD5V0F1USF		
		5.5	0.5	18		PESD5V5C1UBSF		
		15	1	30		PESD15VW1UCSF		
		15	0.5	15		PESD5V5C1UL	 DFN1006D-2 (SOD882D)	1.0 x 0.6 x 0.37
		5	0.95	8		PESD5V0X1ULD		
			1.55	15		PESD5V0X1UALD		
		5	0.95	8		PESD5V0X1UB	 SOD523 (SC-79)	1.2 x 0.8 x 0.6
			1.55	15		PESD5V0X1UAB		
		3.3	0.6	30		PESD3V3U1UT	 SOT23	2.9 x 1.3 x 1.0
		3.3	1	18		PESD3V3X2UT		
		3.3	0.8	8		PESD3V3F2UT		
		5	0.9	22		PESD5V0X2UT		
		5	0.6	8		PESD5V0F2UT		
		5	0.6	30		PESD5V0U1UT		
		12	0.6	30		PESD12VU1UT		
		15	0.6	30		PESD15VU1UT		
		24	0.6	23		PESD24VU1UT		
0	1	2	0.7	20		PESD2V0Y1BXM	 SOD962C	0.6 x 0.3 x 0.18
		1	0.1	8		PESD1V0R1BCSF	 DSN0603-2 (SOD962)	0.6 x 0.3 x 0.3
			0.13	10		PESD1V0R1BDSF		
			0.15	13		PESD1V0H1BSF		
			0.16	14		PESD1V0Y1BBSF		
			0.18	15		PESD1V0C1BSF		
			0.2	15		PESD1V0R1BESF		
			0.24	19		PESD1V0R1BFSF		
		1.2	0.26	15		PESD1V2Y1BSF		
		2.0	0.69	20		PESD2V0Y1BSF		
		2.5	0.25	15		PESD2V5Y1BSF		
		2.5	2	25		PESD2V5X1BSF		
		2.8	0.1	10		PESD2V8R1BSF		
		1	0.16	14		PESD2V8Y1BSF		
		3.3	0.24	15		PESD3V3Y1BSF		
			0.2	20		PESD3V3C1BSF		
			0.28	20		PESD3V3Z1BSF		
			0.45	30		PESD3V3Z1BCSF		
			0.55	30		PESD3V3W1BCSF		
		3.3	0.78	20		PESD3V3F1BSF		
		4.0	0.24	15		PESD4V0Y1BSF		
			0.7	30		PESD4V0Y1BBSF		
			0.16	14		PESD4V0Y1BCSF		
			0.28	20		PESD4V0Z1BSF		
			0.37	13		PESD4V0Y1BHSF		
			0.45	30		PESD4V0Z1BCSF		
			0.55	30		PESD4V0W1BCSF		
		5	0.16	15		PESD5V0Y1BCSF		
		5	0.09	8		PESD5V0R1BCSF		
		5	0.1	12		PESD5V0R1BDSF		
		5	0.1	10		PESD5V0R1BSF		
			0.15	15		PESD5V0H1BSF		
			0.2	20		PESD5V0C1BSF		
			0.32	30		PESD5V0Z1BDSF		
			0.49	30		PESD5V0W1BDSF		

Low capacitance ESD protection for high-speed interfaces

Types in **bold red** are in development,
types in **bold** represent new products

Unid Rectional	Bid Rectional	V _{RWM} (V)	C _{line} typ (pF)	ESD rating max (kV) [1]	Configuration	Type	Package	Size (mm)
0	1	5.5	0.27	18		PESD5V5C1BBSF	 DSN0603-2 (SOD962)	0.6 x 0.3 x 0.3
		7	0.1	10		PESD7V0R1BSF		
			0.15	15		PESD7V0H1BSF		
			0.2	20		PESD7V0C1BSF		
		7.1	0.11	8		PESD7V1R1BCSF		
			0.13	12		PESD7V1R1BDSF		
		5.5	0.25	10		PESD5V0F1BSF		
		3.3	-	20		PESD5V0F1BRSF		
			-			PESD3V3X1BCSF		
		5.0	-	PESD5V0X1BCSF				
		9	0.2	18		PESD9V0C1BSF		
		9	0.32	30		PESD9V0Z1BDSF		
		9	0.49	30		PESD9V0W1BDSF		
		12	0.37	13		PESD12VY1BSF		
		12	0.45	30		PESD12VW1BCSF		
		15	0.18	10		PESD15VY1BSF		
		15	0.45	30		PESD15VW1BCSF		
		15	0.5	30		PESD15VW1ACSF		
		18	0.23	10		PESD18VF1BBSF		
		24	0.18	10		PESD24VY1BSF		
		24	0.7	30		PESD24VY1BBSF		
		24	0.23	10		PESD24VF1BBSF		
		30	0.24	10		PESD30VF1BSF		
		30	0.15	10		PESD30VY1BSF		
		1	0.18	15		PESD1V0Y1BIF	 DSN0603D-2 (SOD962D)	
		18	0.15	10		PESD18VY1BBIF		
		5	0.4	10		PESD5V0F1BLD	 DFN1006D-2 (SOD882D)	
		3.3	1.3	9		PESD5V0F1BRLD		
		5.5	0.4	10		PESD3V3X1BL	 DFN1006-2 (SOD882)	1.0 x 0.6 x 0.48
		5	0.49	8		PESD5V0F1BL		
			0.85	15		PESD5V0X1BCL		
			0.9	9		PESD5V0X1BCAL		
		5	0.24	15		PESD5V0X1BL		
		18	0.31	10		PESD5V5C1BL		
		24	0.28	10		PESD18VF1BBL		
		24	0.27	10		PESD24VF1BBL		
		30	0.27	10		PESD30VF1BBL		
		2	1	3.3		0.5	15	
4	0.8			20	PESD4V0X2UM			
5	0.5			15	PESD5V0C2UM			
	0.5			10	PESD5V0X2UMB	 DFN1006B-3 (SOT883B)	1.0 x 0.6 x 0.37	
					PESD5V0X2UM			
	0.8			15	DFN1006-3 (SOT883)	 DFN1006-3 (SOT883)	1.0 x 0.6 x 0.48	
					PESD5V0X2UAMB			
					DFN1006B-3 (SOT883B)			
0.9	9					PESD5V0X2UAM	 DFN1006-3 (SOT883)	1.0 x 0.6 x 0.48
						PESD5V0X1BT		
		 SOT23						

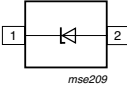
ESD protection, TVS,
filtering and signal
conditioning

Low capacitance ESD protection for high-speed interfaces

Types in **bold** represent new products

Unid/Rectional	Bid/Rectional	V_{RWM} (V)	C_{line} typ (pF)	ESD rating max (kV) [1]	Configuration	Type	Package	Size (mm)
2	0	80	0.6	30		NUP1301U	 SOT323	2.0 x 1.25 x 0.95
						NUP1301	 SOT23	2.9 x 1.3 x 1.0
						NUP1301QA	 SOT1215	1.0 x 1.0 x 0.4
0	2	5	0.21	20		PESD5V0C2BDF	 DFN0603-3 (SOT8013)	0.62 x 0.32 x 0.25
0	2	4	0.26	20		PUSB3BB2DF		
0	2	4	0.31	25		PESD4V0Z2BCDF		
3	0	5.5	1	8		PRTR5V0U2X	 SOT143B	2.9 x 1.3 x 1.0
			1.8	12		PRTR5V0U2AX		
			1	8		PRTR5V0U2F	 DFN1410-6 (SOT886)	1.45 x 1.0 x 0.48
4	0	3.3	0.75	25		PESD3V3X4UHC	 DFN1308-6 (SOT8006)	1.3 x 0.8 x 0.4
			1	8		IP4220CZ6	 SOT457 (SC-74)	2.9 x 1.5 x 1.0
		5.5	0.6	8		PRTR5V0U4D		2.9 x 1.5 x 1.0
						IP4283CZ10-TBR	 DFN2510A-10 (SOT1176)	2.5 x 1.0 x 0.48
			0.6	8				
4	0	3.3	0.29	15		PUSB3FC4	 SOT1165-3 (DFN2510-10)	2.5 x 1 x 0.5
			0.29			PHDMI2FC4		
4	0		0.3			PUSB3FR4		
4	0		0.17			PUSB3FS4	 DFN2510A-10 (SOT1176-1)	2.5 x 1 x 0.5
0	4		0.17			PUSB3AB4		
0	4		0.22			PUSB3BB4		
0	4		0.22			PUSB3CB4		
4	0	5	0.29			PHDMI2FR4		
4	0		0.3			PHDMI2FS4		
0	4		0.17			PHDMI2AB4		
0	4		0.17			PHDMI2BB4		
0	4		0.22			PHDMI2CB4		
6	0	3.3	0.35			PUSB3FR6	 XSON7 (SOT1358-1)	2.1 x 1.1 x 0.5
0	6		0.15			PUSB3AB6		

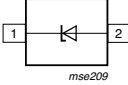
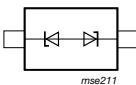
General purpose ESD protection devices

Number of protected lines		V_{RWM} (V)	C_{line} typ (pF)	C_{line} max (pF)	I_{PPM} (A) @ 20µs	ESD rating max (kV) [1]	I_R max (µA) @ V_{RWM}	Configuration	Type	Package	Size (mm)
Unidirectional	Bidirectional										
1	0	5	35	42	3.5	30	0.1		PESD5V0S1USF	 DSN0603-2 (SOD962)	0.6 x 0.3 x 0.3
		5.5	12	15.4	1.2	30	0.1		PESD5V0L1USF		
		3.3	2.6	3.1	-	9	0.1 (@ 3 V)		PESD3V3U1UL	 DFN1006-2 (SOD882)	1.0 x 0.6 x 0.5
			34	40	4.5	30	0.3		PESD3V3L1UL		
			207	300	15	30	2		PESD3V3S1UL		
		5	2	2.6	-	9	0.1		PESD5V0U1UL		
			25	30	3.5	26	0.1		PESD5V0L1UL		
		5	152	200	15	30	1		PESD5V0S1UL		
		6	82	105	10	30	0.3		PESD6V3S1UL		
		8	70	90	9	30	0.5		PESD8V0S1UL		
		12	38	75	5	30	0.05		PESD12V51UL		
		15	32	70	5	30	0.05		PESD15V51UL		
		24	23	50	3	23	0.05		PESD24V51UL		
		36	18	2.5	2.5	30	0.01		PESD36V51UL		
		5	25	30	3.5	26	0.1		PESD5V0L1ULD	 DFN1006D-2 (SOD882D)	1.0 x 0.6 x 0.4
			152	200	15	30	1		PESD5V0S1ULD		
		8	70	90	13	30	0.5		PESD8V0S1ULD		
		12	38	75	5	30	0.05		PESD12V51ULD		
		15	32	70	5	30	0.05		PESD15V51ULD		
		24	23	50	3	23	0.05		PESD24V51ULD		
		3.3	207	300	15	30	2		PESD3V3S1ULS	 DFN1006BD-2 (SOD882BD)	1.0 x 0.6 x 0.48
		5	152	200	15	30	1		PESD5V0S1ULS		
		8	70	90	13	30	0.5		PESD8V0S1ULS		
		12	38	75	5	30	0.05		PESD12V51ULS		
		15	32	70	5	30	0.05		PESD15V51ULS		
		24	23	50	3	23	0.05		PESD24V51ULS		
		36	18	2.5	2.5	30	0.01		PESD36V51ULS	 SOD523 (SC-79)	1.2 x 0.8 x 0.6
		2.5	229	300	20	30	6		PESD5Z2.5		
		3.3	2.6	3.1	-	9	0.1 (@ 3 V)		PESD3V3U1UB		
			34	40	4.5	30	0.3		PESD3V3L1UB		
			172	200	20	30	0.05		PESD5Z3.3		
			207	300	18	30	2		PESD3V3S1UB		
		5	2	2.6	-	9	0.1		PESD5V0U1UB		
			25	30	3.5	26	0.1		PESD5V0L1UB		
			89	150	10	30	0.05		PESD5Z5.0		
			152	200	15	30	1		PESD5V0S1UB		
		6	78	150	10	30	0.01		PESD5Z6.0		
		7	69	150	10	30	0.01		PESD5Z7.0		
		12	35	75	6	30	0.01		PESD5Z12		
			38	75	5	30	0.05		PESD12V51UB		
		15	32	70	5	30	0.05		PESD15V51UB		
		24	23	50	3	23	0.05		PESD24V51UB		

ESD protection, TVS,
filtering and signal
conditioning

General purpose ESD protection devices

types in **bold** represent new products

Number of protected lines		V _{RWM} (V)	C _{line} typ (pF)	C _{line} max (pF)	I _{PPM} (A) @ 20µs	ESD rating max (kV) [1]	I _e max (µA) @ V _{RWM}	Configuration	Type	Package	Size (mm)
Unid Rectional	Bid Rectional										
1	0	3.3	2.6	3.1	-	9	0.1 (@ 3 V)		PESD3V3U1UA	 SOD323 (SC-76)	1.7 x 1.25 x 0.95
		5	2	2.6	-	9	0.1		PESD5V0U1UA		
			25	30	3.5	26	0.1		PESD5V0L1UA		
			480	530	47	30	4		PESD5V0S1UA		
			12	160	180	22.5	30		0.1		
		24	23	50	3	23	0.05		PESD24VS1UA		
		5	480	530	47	30	4		PESD5V0S1UJ	 SOD323F (SC-90)	1.7 x 1.25 x 0.7
		12	160	180	22.5	30	0.1		PESD12VS1UJ		
		36	18	30	2.5	30	0.01		PESD36VS1UJ		
		3.3	5.5	6	5.4	20	0.1		PESD3V3U1BCSF	 DSN0603-2 (SOD962)	0.6 x 0.3 x 0.3
			8.5	10	7.1	30	0.1		PESD3V3V1BCSF		
			11	14	12	30	0.05		PESD3V3S1BSF		
			24	-	20	30	0.05		PESD3V3L1BBSF		
			33	-	20	30	0.05		PESD3V3L1BSF		
		5	5.3	6	1	20	0.1		PESD5V0V1BCSF		
					2	20	0.1		PESD5V0V1BDSF		
				4.5	1	15	0.1		PESD5V0V1BSF		
			12	15.4	3	30	0.1		PESD5V0L1BSF		
			35	45	8	30	0.1		PESD5V0S1BSF		
		5.5	5.3	6	5.4	20	0.1		PESD5V5U1BCSF		
			6.2	7.5	11	22	0.05		PESD5V5S1BSF		
		12	17	19	6.1	30	0.05		PESD12VA-SF		
		16	5.7	6.5	1.3	12	0.05		PESD16VV1BSF		
		18	4	6	3	25	0.1		PESD18VV1BBSF		
		12	17	19	10	30	0.05		PESD12VV1BSF		
		15	15	17	9	30	0.05		PESD15VV1BSF		
		18	12.7	15	7.1	30	0.05		PESD18VV1BASF		
		20	11.2	13.5	6.5	30	0.05		PESD20VV1BSF		
		22	10.2	12.2	5.1	30	0.05		PESD22VV1BSF		
		24	9.3	11.2	4.7	30	0.05		PESD24VV1BSF		
		24	5	6	2.6	20	0.05		PESD24VV1BBSF		
		27	5	6	2.4	18	0.05		PESD27VV1BSF		
		30	4.8	5.8	2.1	15	0.05		PESD30VV1BSF		
		-30/+33	4.8	5.8	1.9	13	0.05		PESD33VV1ASF		
		-30/+36	4.5	5.4	1.8	12	0.05		PESD36VV1ASF		
		5	75	-	15	30	1		PESD5V0L1BA	 SOD323 (SC-76)	1.7 x 1.25 x 0.95
		12	19	-	5	30	0.05		PESD12VL1BA		
		15	16	-	5	30	0.05		PESD15VL1BA		
		24	11	-	3	23	0.05		PESD24VL1BA		
		32	9	12	2.5	23	0.05		PESD32VL1BA		
		36	9	12	2	18	0.05		PESD36VL1BA		
		24	14	17	3.5	30	0.05		PESD24VV1BA		
		27	13	17	3	30	0.05		PESD27VV1BA		
		3.3	11	13	5	30	0.01		PESD3V3V1BL	 DFN1006-2 (SOD882)	1.0 x 0.6 x 0.5
			22	30	10	30	0.05		PESD3V3T1BL		
			35	40	15	30	0.1		PESD3V3S1BL		
			65	78	34	30	0.05		PTVS3V3D1BAL		
		4.5	65	78	34	30	0.05		PTVS4V5D1BL		
		5	11	13	4.8	30	0.01		PESD5V0V1BL		

General purpose ESD protection devices

Types in **bold** represent new products

Number of protected lines		V _{RWM} (V)	C _{line} typ (pF)	C _{line} max (pF)	I _{PPM} (A) 8/20μs	ESD rating max (kV) [1]	I _R max (μA) @ V _{RWM}	Configuration	Type	Package	Size (mm)		
UnidRectional	BidRectional												
0	1	5	35	45	12	30	0.1		PESD5V0S1BL	 DFN1006-2 (SOD882)	1.0 x 0.6 x 0.5		
		5.5	70	84	35	30	0.1		PTV5S5D1BL				
		12	17	25	7.8	30	0.01		PESD12VV1BL				
		24	14	17	3.5	30	0.05		PESD24VV1BL				
		27	14	17	3	30	0.05		PESD27VV1BL				
		3	20	25	10	30	0.1		PESD3V3T1BLD	 DFN1006D-2 (SOD882D)	1.0 x 0.6 x 0.37		
		5	11	13	4.8	30	0.01		PESD5V0V1BLD				
			35	45	12	30	0.1		PESD5V0S1BLD				
		3.3	20	25	10	30	0.1		PESD3V3T1BLS	 DFN1006BD-2 (SOD882BD)	1.0 x 0.6 x 0.48		
		5	11	13	4.8	30	0.01		PESD5V0V1BLS				
		12	17	25	7.8	30	0.01		PESD12VV1BLS				
		3.3	15.5	18	7.5	25	0.1		PESD3V3L1BSL	 SOD882-S1	1 x 0.6 x 0.4		
		5	15.5	18	7.5	25	0.1		PESD5V0L1BSL				
		7	15	20	7	30	0.1		PESD7V0L1BSL				
		12	7.7	9	7.3	30	0.1		PESD12VL1BSL				
		5	5	11	13	4.8	30		0.01	PESD5V0V1BB	 SOD523 (SC-79)	1.2 x 0.8 x 0.6	
				35	45	12	30		0.1	PESD5V0S1BB			
				11	13	4.8	30		0.01	PESD5V0V1BA	 SOD323 (SC-76)	1.7 x 1.25 x 0.95	
				35	45	12	12		0.1	PESD5V0S1BA			
				2.9	3.5	-	10		0.1		PESD5V0U1BL	 DFN1006-2 (SOD882)	1.0 x 0.6 x 0.5
											PESD5V0U1BLD	 DFN1006D-2 (SOD882D)	1 x 0.6 x 0.4
											PESD5V0U1BB	 SOD523 (SC-79)	1.2 x 0.8 x 0.6
											PESD5V0U1BA	 SOD323 (SC-76)	1.7 x 1.25 x 0.95
2	1	3.3	22	28	3	15	0.03		PESD3V3L2UM	 DFN1006-3 (SOT883)	1.0 x 0.6 x 0.5		
		5	16	19	2.5	15	0.025		PESD5V0L2UM				
					2.5	15	0.025		PESD5V0L2UMB	 DFN1006B-3 (SOT883B)	1 x 0.6 x 0.37		
		3.3	207	300	18	30	2		PESD3V3S2UT	 SOT23	2.9 x 1.3 x 1		
		5.2	152	200	15	30	1		PESD5V2S2UT				
		12	38	75	5	30	1		PESD12VS2UT				
		15	32	70	5	30	1		PESD15VS2UT				
		24	23	50	3	23	1		PESD24VS2UT				
		36	17	35	2.5	30	1 (@ 30 V)		PESD36VS2UT				
		42	17	20	1.8	23	0.05		PESD42VS2UT				
		3.3	207	300	18	30	2		PESD3V3S2UAT				
		5	152	200	15	30	1		PESD5V0S2UAT				
		15	32	70	5	30	0.05		PESD15VS2UAT				
		24	23	50	3	23	0.05		PESD24VS2UAT				
		5	38	46	6.5	30	0.09 (@ 4 V)		PESD5V0L2UU	 SOT323 (SC-70)	2 x 1.25 x 0.95		
		6	34	40	5.5	30	0.018 (@ 4.3 V)		PESD6V0L2UU				
0	2	3.3	101	-	15	30	0.05		PESD3V3L2BT	 SOT23	2.9 x 1.3 x 1		
		5	75	-	13	30	0.05		PESD5V0L2BT				
		12	19	-	5	30	0.1		PESD12VL2BT				

ESD protection, TVS, filtering and signal conditioning

General purpose ESD protection devices

Types in **bold** represent new products

Number of protected lines		V_{RWM} (V)	C_{line} typ (pF)	C_{line} max (pF)	I_{PPM} (A) 8/20µs	ESD rating max (kV) [1]	I_R max (µA) @ V_{RWM}	Configuration	Type	Package	Size (mm)
Unidirectional	Bidirectional										
0	2	15	16	-	5	30	0.05		PESD15VL2BT	 SOT23	2.9 x 1.3 x 1
		24	11	-	3	23	0.05		PESD24VL2BT		
		24	14	17	3.5	30	0.05		PESD24VV2BT		
		27	13	17	3	30	0.05		PESD27VV2BT		
		48	7	9	4	30	0.05		PESD48VV2BT		
			35	45	12	30	0.1		PESD5V0S2BT	 DFN1006-3 (SOT883)	1.0 x 0.6 x 0.5
			2.9	3.5	-	10	0.1		PESD5V0U2BT		
			18	20	9	30	0.01		PESD5V0U2BM		
			18	20	9	30	0.01		PESD5V0V2BM		
			2.9	3.5	-	10	0.1		PESD5V0U2BMB		
			18	20	9	30	0.01		PESD5V0V2BMB	DFN1006B-3 (SOT883B)	1 x 0.6 x 0.37
			35	45	35	30	0.1		PESD5V0S2BQA	DFN1010D-3 (SOT1215)	1.1 x 1.0 x 0.37
4	3	3.3	22	28	3	20	0.3	 006aaa156	PESD3V3L4UF	 DFN1410-6 (SOT886)	1.45 x 1 x 0.5
			110	300	10	30	1 (@ 3 V)		PESD3V3S4UF		
		5	16	19	2.5	20	0.025		PESD5V0L4UF		
			85	220	10	30	0.1 (@ 4.3 V)		PESD5V0S4UF		
		3	200	240	-	8	2	 msd213	BZA856A	 SOT353 (SC-88A)	2 x 1.25 x 0.95
		3.3	22	28	3	20	0.3		PESD3V3L4UG		
		5	16	19	2.5	20	0.025		PESD5V0L4UG		
		3	200	240	-	8	2	 msd214	BZA456A	 SOT457 (SC-74)	2.9 x 1.5 x 1
		3.3	215	300	20	30	0.8		PESD3V3S4UD		
		5	165	220	20	30	0.2		PESD5V0S4UD		
		15	37	48	-	8	0.1		BZA420A		
		24	40	70	4	23	0.01		PESD24VS4UD		
0	4	3.3		9.9	6	20	0.1	 msd109	PESD3V3L4BHC	DFN1308-6 (SOT8006)	1.3 x 0.8 x 0.4
			2.9	3.5	-	10	0.1		PESD5V0U4BF	DFN1410-6 (SOT886)	1.45 x 1 x 0.5
		5	45	75	-	15	0.1	 msd110	BZA408B	 SOT457 (SC-74)	2.9 x 1.5 x 1.0
0	5	3.3	22	28	2.5	20	0.3	 006aaa159	PESD3V3L5UF	 DFN1410-6 (SOT886)	1.45 x 1 x 0.5
		5	16	19	2.5	20	0.025		PESD5V0L5UF		
		3.3	22	28	2.5	20	0.3	 msd217	PESD3V3L5UY	 SOT363 (SC-88)	2 x 1.25 x 0.95
		5	16	19	2.5	20	0.025		PESD5V0L5UY		
		3.3	215	300	20	30	0.8		PESD3V3S5UD	 SOT457 (SC-74)	2.9 x 1.5 x 1.0
		5	165	220	20	30	0.2		PESD5V0S5UD		
		12	73	100	10	30	0.015		PESD12VS5UD		
		15	60	90	6	30	0.015		PESD15VS5UD		
		24	45	70	4	23	0.015		PESD24VS5UD		
		5	2.9	3.5	-	10	0.1	 msd111	PESD5V0U5BF	DFN1410-6 (SOT886)	1.45 x 1 x 0.5

Common mode filters with integrated protection

Types in **bold** represent new products

Interface	Number of protected line pairs	Type	Differential Mode 3 dB frequency (typ.)	range of CM rejection > -10 dB	V _{RWM} (V)	IEC61000-4-2 ESD rating (kV)	IPP (A) 8/20 µs	Channel series resistance (Ω)	Package	Size (mm)
USB2.0	1	IP3319CX6	1.5	0.14 - 5.8	5.5	15	6	6	WLCSP6 	0.95 x 1.34 x 0.6
USB3.2	1	PCMF1USB3BA/C	10 GHz	1.85 - 8.9	4	15	7.5	2.2	WLCSP5 	0.8 x 1.2 x 0.5
	2	PCMF2USB3BA/C							WLCSP10 	1.6 x 1.2 x 0.5
	3	PCMF3USB3BA/C							WLCSP15 	2.4 x 1.2 x 0.5
	1	PCMF1USB3B/C	8.1 GHz	1.24 - 10	4	20	9.5	2.6	WLCSP5 	0.8 x 1.2 x 0.5
	2	PCMF2USB3B/C							WLCSP10 	1.6 x 1.2 x 0.5
	3	PCMF3USB3B/C							WLCSP15 	2.4 x 1.2 x 0.5
	1	PCMF1USB3S	6 GHz	0.63 - 8.3	5	15	7	3	WLCSP5 	0.8 x 1.2 x 0.5
	2	PCMF2USB3S							WLCSP10 	1.6 x 1.2 x 0.5
	3	PCMF3USB3S							WLCSP15 	2.4 x 1.2 x 0.5
	1	PESD1USB3B	16.1 GHz	-	4	20	9.5	-	WLCSP5 	0.8 x 1.2 x 0.5
	2	PESD2USB3B							WLCSP10 	1.6 x 1.2 x 0.5
	3	PESD3USB3B							WLCSP15 	2.4 x 1.2 x 0.5
	1	PESD1USB3S	17 GHz	-	5	15	8	-	WLCSP5 	0.8 x 1.2 x 0.5
	2	PESD2USB3S							WLCSP10 	1.6 x 1.2 x 0.5
	3	PESD3USB3S							WLCSP15 	2.4 x 1.2 x 0.5
HDMI2.0	1	PCMF1HDMI2S	>6 GHz	0.63-8.3	5	15	7	3	WLCSP5 	0.8 x 1.2 x 0.5
	2	PCMF2HDMI2S							WLCSP10 	1.6 x 1.2 x 0.5
	3	PCMF3HDMI2S							WLCSP15 	2.4 x 1.2 x 0.5
HDMI2.1	1	PCMF1HDMI2BA-C	10 GHz	1.85 - 8.9	4	15	7.5	2.2	WLCSP5 	0.8 x 1.2 x 0.5
	2	PCMF2HDMI2BA-C							WLCSP10 	1.6 x 1.2 x 0.5
	3	PCMF3HDMI2BA-C							WLCSP15 	2.4 x 1.2 x 0.5

ESD protection, TVS,
filtering and signal
conditioning

TVS diodes for mobile applications

Types in **bold** represent new products

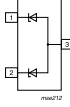
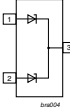
V_{RWM}	$V_{BR\ min}$	$V_{BR\ max}$	$I_{PPM\ 8/20\mu s}$	$V_{CL\ 8/20\mu s}$	Type	Package	Size
3.3	4.7	-	34	13.2	PTVS3V3D1BAL	 DFN1006-2 (SOD882)	1.0 x 0.6 x 0.48
4.5	4.7	-	34	13.2	PTVS4V5D1BL		
5.5	5.6	7.6	35	12.2	PTVS5V5D1BL		
3.3	3.8	6.8	70	11	PTVS3V3Z1BSC	 DSN1006-2 (SOD993B)	1.0 x 0.6 x 0.27
5	5.5	8.3	60	12	PTVS5V0Z1BSC		
5	5.1	7	44	7.3	PTVS5V0Z1UCL	 DFN1006-2 (SOD882P-1)	1.02 x 0.62 x 0.45
5	5.1	7	65	7.5	PTVS5V0D1UCL		
6.3	6.4	9	40	9.3	PTVS6V3Z1UCL		
6.3	6.4	9	56	9.3	PTVS6V3D1UCL		
20	22	26	30	28.5	PTVS20VD1UL		
4.8	5.1	7	150	8.5	PTVS4V8Z1UPC	 DFN1610-2 (SOD1610)	1.6 x 1.0 x 0.55
5	5.1	7	150	8.5	PTVS5V0Z1UPC		
5.5	6.4	9	140	9.9	PTVS5V5Z1UPC		
6.3	6.4	9	140	9.9	PTVS6V3Z1UPC		
24	25	29	150	28	PTVS24VZ1UPA	 DFN2020-3 (SOT1061-3)	2.0 x 2.0 x 0.55
30	31	34.5	150	33.5	PTVS30VZ1UPA		

$P_{PPM\ 10/1000\mu s}$	V_{RWM}	$V_{BR\ min}$	$V_{BR\ max}$	$I_{PPM\ 8/20\mu s}$	$V_{CL\ 8/20\mu s}$	$I_{PPM\ 10/1000\mu s}$	$V_{CL\ 10/1000\mu s}$	Type	Package	Size
300	7.5	8.33	9.21	178	19.7	23.3	12.9	PTVS7V5U1UPA	 DFN2020-3 (SOT1061)	2.0 x 2.0 x 0.62
	10	11.1	12.3	148	23	17.6	17	PTVS10VU1UPA		
	12	13.3	14.7	131	25.2	15.1	19.9	PTVS12VU1UPA		
	15	16.7	18.5	111	28.8	12.3	24.4	PTVS15VU1UPA		
	18	20	22.1	97	32	10.3	29.2	PTVS18VU1UPA		
	20	22.2	24.5	98.5	38.7	9.2	32.5	PTVS20VU1UPA		
	22	24.4	26.9	88.5	41	8.4	35.5	PTVS22VU1UPA		
	24	26.7	29.5	79	44.2	7.7	38.8	PTVS24VU1UPA		
	26	28.9	31.9	69	43.5	7	43	PTVS26VU1UPA		

V_{RWM} (V)	$V_{br, min}$ (V)	$V_{br, max}$ (V)	8/20 μ s pulse		10/1000 μ s pulse		$I_{Rm, typ}$ @ V_{RWM} (nA)	$I_{Rm, max}$ @ V_{RWM} (nA)	R_{dyn} (TLP)	Type	Package	Size
			$V_{cl, @ I_{ppm}}$ (V)max	$V_{CL, @ I_{ppm}}$ (A)	$V_{cl, @ I_{ppm}}$ (V)max	I_{ppm} (A)						
5	6.4	7.8	19.4	100	12	20	25	1000	0.1	PTVS5V0Z1USKP	 DSN1608-2 (SOD964)	1.6 x 0.8 x 0.27
			18	80	12	20	25	1000	0.06	PTVS5V0Z1USK		
7.5	8.33	9.65	22	100	13.5	17	1	200	0.08	PTVS7V5Z1USK		
10	11.1	12.9	27	75	18.2	12.5	0.1	200	0.11	PTVS10VZ1USK		
12	13.1	15.4	29	65	21.8	10.5	0.1	200	0.11	PTVS12VZ1USK		
15	16.7	19.4	26	52	27.4	7.5	0.1	200	0.13	PTVS15VZ1USK		
18	20	23.2	44	41	32.8	6.4	0.1	200	0.17	PTVS18VZ1USK		
20	22.2	25.4	48.3	41	36.9	6	1	200	0.2	PTVS20VZ1USK		
22	24.4	26.9	51	39	40	5	0.1	200	0.2	PTVS22VZ1USK		
26	28.9	33.4	57.5	32	46	4.5	0.1	200	0.15	PTVS26VZ1USK		

ESD protection, TVS, filtering and signal conditioning

TVS diodes, 24 W/40 W

Power (W) (10 / 1000 μ s waveform) ^[1]	V_{RWM} (V)	V_{min} (V) @ I	V_{typ} (V) @ I	$V_{BR, max}$ (V) @ I_R	I_R (mA)	ESD rating max (kV)	C typ (pF)	$V_{CL, max}$ (V) @ I_{PP} ^[1]	I_{PP} (A) ^[1]	$I_{RM, max}$ (μ A) @ V_{RWM}	Configuration	Type	Package	Size (mm)
24	3	5.32	5.6	5.88	20	30	210	8	3	5		MMBZ5V6AL(-Q)	 SOT23	2.9 x 1.3 x 1.0
		5.89	6.2	6.51	1	30	175	8.7	2.76	0.2		MMBZ6V2AL(-Q)		
	4.5	6.48	6.8	7.14	1	30	150	9.6	2.5	0.3		MMBZ6V8AL(-Q)		
	6	8.65	9.1	9.56	1	30	155	14	1.7	0.1		MMBZ9V1AL(-Q)		
	6.5	9.5	10	10.5	1	30	130	14.2	1.7	0.02		MMBZ10VAL(-Q)		
40	8.5	11.4	12	12.6	1	30	110	17	2.35	0.005		MMBZ12VAL(-Q)		
	12	14.25	15	15.75	1	30	85	21	1.9	0.005		MMBZ15VAL(-Q)		
	13	15.2	16	16.8	1	30	76	23	1.9	0.005		MMBZ16VAL(-Q)		
	13	15.68	16	16.32	1	30	76	23	1.9	0.005		MMBZ16VTAL(-Q)		
	14.5	17.1	18	18.9	1	30	70	25	1.6	0.005		MMBZ18VAL(-Q)		
	17	19	20	21	1	30	65	28	1.4	0.005		MMBZ20VAL(-Q)		
	22	25.65	27	28.35	1	30	48	40	1	0.005		MMBZ27VAL(-Q)		
	26	31.35	33	34.65	1	30	45	46	0.87	0.005		MMBZ33VAL(-Q)		
	8.5	11.4	12	12.6	1	30	110	17	2.35	0.005		MMBZ12VDL(-Q)		
	12.8	14.3	15	15.8	1	30	85	21.2	1.9	0.005		MMBZ15VDL(-Q)		
	14.5	17.1	18	18.9	1	30	70	25	1.6	0.005		MMBZ18VCL(-Q)		
	17	19	20	21	1	30	65	28	1.4	0.005		MMBZ20VCL(-Q)		
	22	25.65	27	28.35	1	30	48	38	1	0.005		MMBZ27VCL(-Q)		
	26	31.35	33	34.65	1	30	45	46	0.87	0.005		MMBZ33VCL(-Q)		
	26	31.35	33	34.65	1	30	45	46	0.87	0.005		MMBZ33VCL(-Q)		

^[1] 10/1000 μ s according to IEC 61643-321

TVS 400 W

Power (W) (10/1000 µs waveform) [1]	Uni/Bi directional	V_{RWM} (V)	$V_{BR\ min}$ (V) @ I_R	$V_{BR\ typ}$ (V) @ I_R	$V_{BR\ max}$ (V) @ I_R	$V_{CL\ max}$ (V) @ I_{PP} [1]	$V_{CL\ max}$ (V) @ I_{PPM} [1]	I_{PP} (A) [1]	$I_{RM\ typ}$ (µA) @ V_{RWM}	$I_{RM\ max}$ (µA) @ V_{RWM}	Type (Tj max = 150 °C)	Type (Tj max = 185 °C)	Package	Size (mm)
350		3.5	5.20	5.60	6.00	10	8.0	43.8	5	600	PTVS3V3S1UR(-Q)	PTVS3V3S1UTR(-Q)		
400	Uni-directional	5.0	6.40	6.70	7.00	10	9.2	43.5	5	400	PTVS5V0S1UR(-Q)	PTVS5V0S1UTR(-Q)	 SOD123W	2.6 x 1.7 x 1.0
		6.0	6.67	7.02	7.37	10	10.3	38.8	5	400	PTVS6V0S1UR(-Q)	PTVS6V0S1UTR(-Q)		
		6.5	7.22	7.60	7.98	10	11.2	35.7	5	250	PTVS6V5S1UR(-Q)	PTVS6V5S1UTR(-Q)		
		7.0	7.78	8.20	8.60	10	12.0	33.3	3	100	PTVS7V0S1UR(-Q)	PTVS7V0S1UTR(-Q)		
		7.5	8.33	8.77	9.21	1	12.9	31.0	0.2	50	PTVS7V5S1UR(-Q)	PTVS7V5S1UTR(-Q)		
		8.0	8.89	9.36	9.83	1	13.6	29.4	0.03	25	PTVS8V0S1UR(-Q)	PTVS8V0S1UTR(-Q)		
		8.5	9.44	9.92	10.40	1	14.4	27.8	0.01	10	PTVS8V5S1UR(-Q)	PTVS8V5S1UTR(-Q)		
		9.0	10.00	10.55	11.10	1	15.4	26.0	0.005	5	PTVS9V0S1UR(-Q)	PTVS9V0S1UTR(-Q)		
		10	11.10	11.70	12.30	1	17.0	23.5	0.005	2.5	PTVS10VS1UR(-Q)	PTVS10VS1UTR(-Q)		
		11	12.20	12.85	13.50	1	18.2	22.0	0.005	2.5	PTVS11VS1UR(-Q)	PTVS11VS1UTR(-Q)		
		12	13.30	14.00	14.70	1	19.9	20.1	0.005	2.5	PTVS12VS1UR(-Q)	PTVS12VS1UTR(-Q)		
		13	14.40	15.15	15.90	1	21.5	18.6	0.001	0.1	PTVS13VS1UR(-Q)	PTVS13VS1UTR(-Q)		
		14	15.60	16.40	17.20	1	23.2	17.2	0.001	0.1	PTVS14VS1UR(-Q)	PTVS14VS1UTR(-Q)		
		15	16.70	17.60	18.50	1	24.4	16.4	0.001	0.1	PTVS15VS1UR(-Q)	PTVS15VS1UTR(-Q)		
		16	17.80	18.75	19.70	1	26.0	15.4	0.001	0.1	PTVS16VS1UR(-Q)	PTVS16VS1UTR(-Q)		
		17	18.90	19.90	20.90	1	27.6	14.5	0.001	0.1	PTVS17VS1UR(-Q)	PTVS17VS1UTR(-Q)		
		18	20.00	21.00	22.10	1	29.2	13.7	0.001	0.1	PTVS18VS1UR(-Q)	PTVS18VS1UTR(-Q)		
		20	22.20	23.35	24.50	1	32.4	12.3	0.001	0.1	PTVS20VS1UR(-Q)	PTVS20VS1UTR(-Q)		
		22	24.40	25.60	26.90	1	35.5	11.3	0.001	0.1	PTVS22VS1UR(-Q)	PTVS22VS1UTR(-Q)		
		24	26.70	28.10	29.50	1	38.9	10.3	0.001	0.1	PTVS24VS1UR(-Q)	PTVS24VS1UTR(-Q)		
		26	28.90	30.40	31.90	1	42.1	9.5	0.001	0.1	PTVS26VS1UR(-Q)	PTVS26VS1UTR(-Q)		
		28	31.10	32.80	34.40	1	45.4	8.8	0.001	0.1	PTVS28VS1UR(-Q)	PTVS28VS1UTR(-Q)		
		30	33.30	35.10	36.80	1	48.4	8.3	0.001	0.1	PTVS30VS1UR(-Q)	PTVS30VS1UTR(-Q)		
		33	36.70	38.70	40.60	1	53.3	7.5	0.001	0.1	PTVS33VS1UR(-Q)	PTVS33VS1UTR(-Q)		
		36	40.00	42.10	44.20	1	58.1	6.9	0.001	0.1	PTVS36VS1UR(-Q)	PTVS36VS1UTR(-Q)		
		40	44.40	46.80	49.10	1	64.5	6.2	0.001	0.1	PTVS40VS1UR(-Q)	PTVS40VS1UTR(-Q)		
		43	47.80	50.30	52.80	1	69.4	5.8	0.001	0.1	PTVS43VS1UR(-Q)	PTVS43VS1UTR(-Q)		
		45	50.00	52.65	55.30	1	72.7	5.5	0.001	0.1	PTVS45VS1UR(-Q)	PTVS45VS1UTR(-Q)		
		48	53.30	56.10	58.90	1	77.4	5.2	0.001	0.1	PTVS48VS1UR(-Q)	PTVS48VS1UTR(-Q)		
		51	56.70	59.70	62.70	1	82.4	4.9	0.001	0.1	PTVS51VS1UR(-Q)	PTVS51VS1UTR(-Q)		
		54	60.00	63.15	66.30	1	87.1	4.6	0.001	0.1	PTVS54VS1UR(-Q)	PTVS54VS1UTR(-Q)		
		58	64.40	67.80	71.20	1	93.6	4.3	0.001	0.1	PTVS58VS1UR(-Q)	PTVS58VS1UTR(-Q)		
		60	66.70	70.20	73.70	1	96.8	4.1	0.001	0.1	PTVS60VS1UR(-Q)	PTVS60VS1UTR(-Q)		
		64	71.10	74.85	78.60	1	103.0	3.9	0.001	0.1	PTVS64VS1UR(-Q)	PTVS64VS1UTR(-Q)		

[1] 10/1000µs according to IEC 61643-321

TVS 600 W

Power (W) (10/1000 μs waveform) [1]	Uni/Bi directional	V_{RWM} (V)	$V_{BR\ min}$ (V) @ I_R	$V_{BR\ typ}$ (V) @ I_R	$V_{BR\ max}$ (V) @ I_R	I_R (mA)	$V_{CL\ max}$ (V) @ $I_{PP}[1]$	I_{PP} (A) [1]	$I_{RM\ typ}$ (μA) @ V_{RWM}	$I_{RM\ max}$ (μA) @ V_{RWM}	Type ($T_J\ max = 150$ °C)	Type ($T_J\ max = 185$ °C)	Package	Size (mm)
600	Uni-directional	3.5	5.20	5.60	6.00	10	8	75	5	600	PTVS3V3P1UP(-Q)	PTVS3V3P1UTP(-Q)	 SOD128	3.8 x 2.6 x 1.0
		5	6.40	6.70	7.00	10	9.2	65.2	5	400	PTVS5V0P1UP(-Q)	PTVS5V0P1UTP(-Q)		
		6	6.67	7.02	7.37	10	10.3	58.3	5	400	PTVS6V0P1UP(-Q)	PTVS6V0P1UTP(-Q)		
		6.5	7.22	7.60	7.98	10	11.2	53.6	5	250	PTVS6V5P1UP(-Q)	PTVS6V5P1UTP(-Q)		
		7	7.78	8.20	8.60	10	12	50	3	100	PTVS7V0P1UP(-Q)	PTVS7V0P1UTP(-Q)		
		7.5	8.33	8.77	9.21	1	12.9	46.5	0.2	50	PTVS7V5P1UP(-Q)	PTVS7V5P1UTP(-Q)		
		8	8.89	9.36	9.83	1	13.6	44.1	0.03	25	PTVS8V0P1UP(-Q)	PTVS8V0P1UTP(-Q)		
		8.5	9.44	9.92	10.40	1	14.4	41.7	0.01	10	PTVS8V5P1UP(-Q)	PTVS8V5P1UTP(-Q)		
		9	10.00	10.55	11.10	1	15.4	39	0.005	5	PTVS9V0P1UP(-Q)	PTVS9V0P1UTP(-Q)		
		10	11.10	11.70	12.30	1	17	35.3	0.005	2.5	PTVS10VP1UP(-Q)	PTVS10VP1UTP(-Q)		
		11	12.20	12.85	13.50	1	18.2	33	0.005	2.5	PTVS11VP1UP(-Q)	PTVS11VP1UTP(-Q)		
		12	13.30	14.00	14.70	1	19.9	30.2	0.005	2.5	PTVS12VP1UP(-Q)	PTVS12VP1UTP(-Q)		
		13	14.40	15.15	15.90	1	21.5	27.9	0.001	0.1	PTVS13VP1UP(-Q)	PTVS13VP1UTP(-Q)		
		14	15.60	16.40	17.20	1	23.2	25.9	0.001	0.1	PTVS14VP1UP(-Q)	PTVS14VP1UTP(-Q)		
		15	16.70	17.60	18.50	1	24.4	24.6	0.001	0.1	PTVS15VP1UP(-Q)	PTVS15VP1UTP(-Q)		
		16	17.80	18.75	19.70	1	26	23.1	0.001	0.1	PTVS16VP1UP(-Q)	PTVS16VP1UTP(-Q)		
		17	18.90	19.90	20.90	1	27.6	21.7	0.001	0.1	PTVS17VP1UP(-Q)	PTVS17VP1UTP(-Q)		
		18	20.00	21.00	22.10	1	29.2	20.5	0.001	0.1	PTVS18VP1UP(-Q)	PTVS18VP1UTP(-Q)		
		20	22.20	23.35	24.50	1	32.4	18.5	0.001	0.1	PTVS20VP1UP(-Q)	PTVS20VP1UTP(-Q)		
		22	24.40	25.60	26.90	1	35.5	16.9	0.001	0.1	PTVS22VP1UP(-Q)	PTVS22VP1UTP(-Q)		
		24	26.70	28.10	29.50	1	38.9	15.4	0.001	0.1	PTVS24VP1UP(-Q)	PTVS24VP1UTP(-Q)		
		26	28.90	30.40	31.90	1	42.1	14.2	0.001	0.1	PTVS26VP1UP(-Q)	PTVS26VP1UTP(-Q)		
		28	31.10	32.80	34.40	1	45.4	13.2	0.001	0.1	PTVS28VP1UP(-Q)	PTVS28VP1UTP(-Q)		
		30	33.30	35.10	36.80	1	48.4	12.4	0.001	0.1	PTVS30VP1UP(-Q)	PTVS30VP1UTP(-Q)		
		33	36.70	38.70	40.60	1	53.3	11.3	0.001	0.1	PTVS33VP1UP(-Q)	PTVS33VP1UTP(-Q)		
		36	40.00	42.10	44.20	1	58.1	10.3	0.001	0.1	PTVS36VP1UP(-Q)	PTVS36VP1UTP(-Q)		
		40	44.40	46.80	49.10	1	64.5	9.3	0.001	0.1	PTVS40VP1UP(-Q)	PTVS40VP1UTP(-Q)		
		43	47.80	50.30	52.80	1	69.4	8.6	0.001	0.1	PTVS43VP1UP(-Q)	PTVS43VP1UTP(-Q)		
		45	50.00	52.65	55.30	1	72.7	8.3	0.001	0.1	PTVS45VP1UP(-Q)	PTVS45VP1UTP(-Q)		
		48	53.30	56.10	58.90	1	77.4	7.8	0.001	0.1	PTVS48VP1UP(-Q)	PTVS48VP1UTP(-Q)		
		51	56.70	59.70	62.70	1	82.4	7.3	0.001	0.1	PTVS51VP1UP(-Q)	PTVS51VP1UTP(-Q)		
		54	60.00	63.15	66.30	1	87.1	6.9	0.001	0.1	PTVS54VP1UP(-Q)	PTVS54VP1UTP(-Q)		
		58	64.40	67.80	71.20	1	93.6	6.4	0.001	0.1	PTVS58VP1UP(-Q)	PTVS58VP1UTP(-Q)		
		60	66.70	70.20	73.70	1	96.8	6.2	0.001	0.1	PTVS60VP1UP(-Q)	PTVS60VP1UTP(-Q)		
		64	71.10	74.85	78.60	1	103	5.8	0.001	0.1	PTVS64VP1UP(-Q)	PTVS64VP1UTP(-Q)		

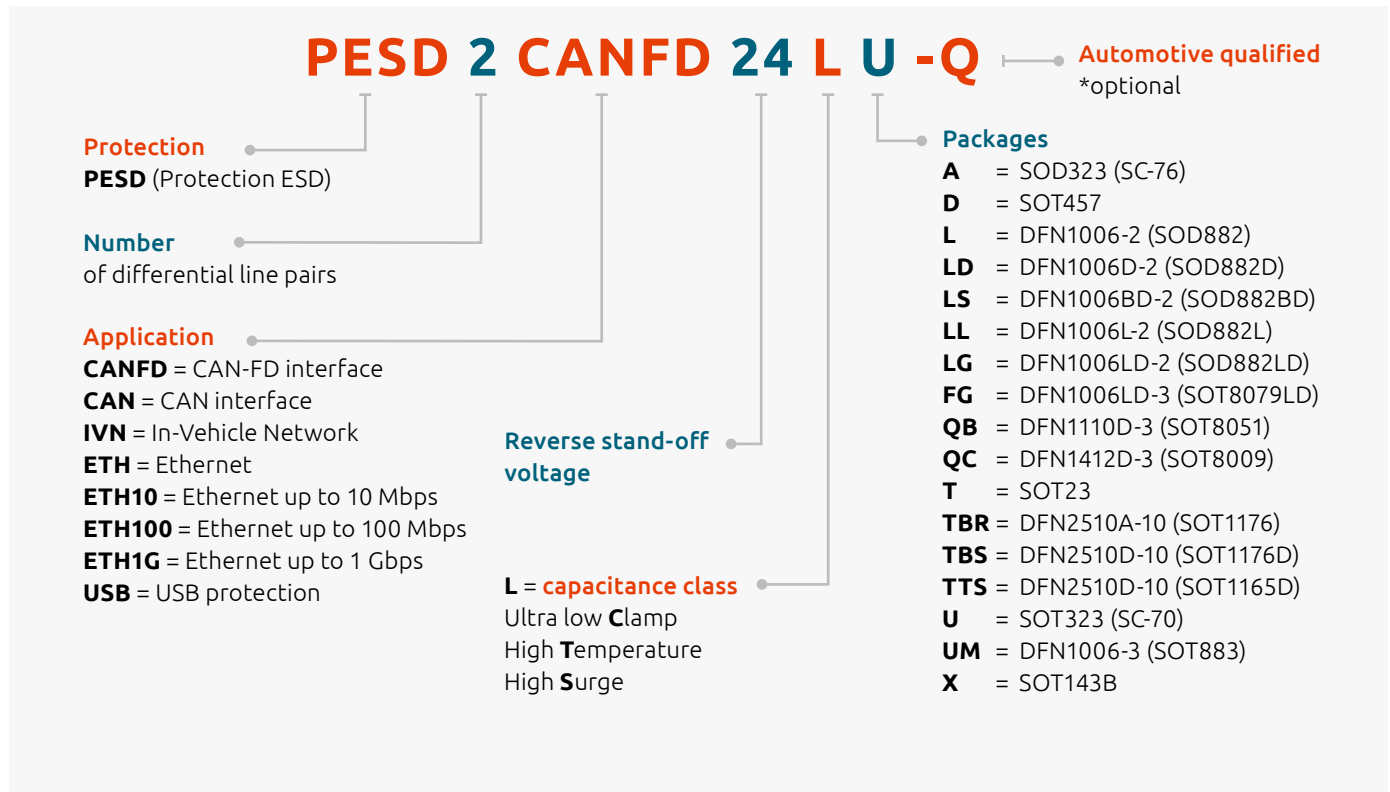
[1] 10/1000μs according to IEC 61643-321

TVS 600 W

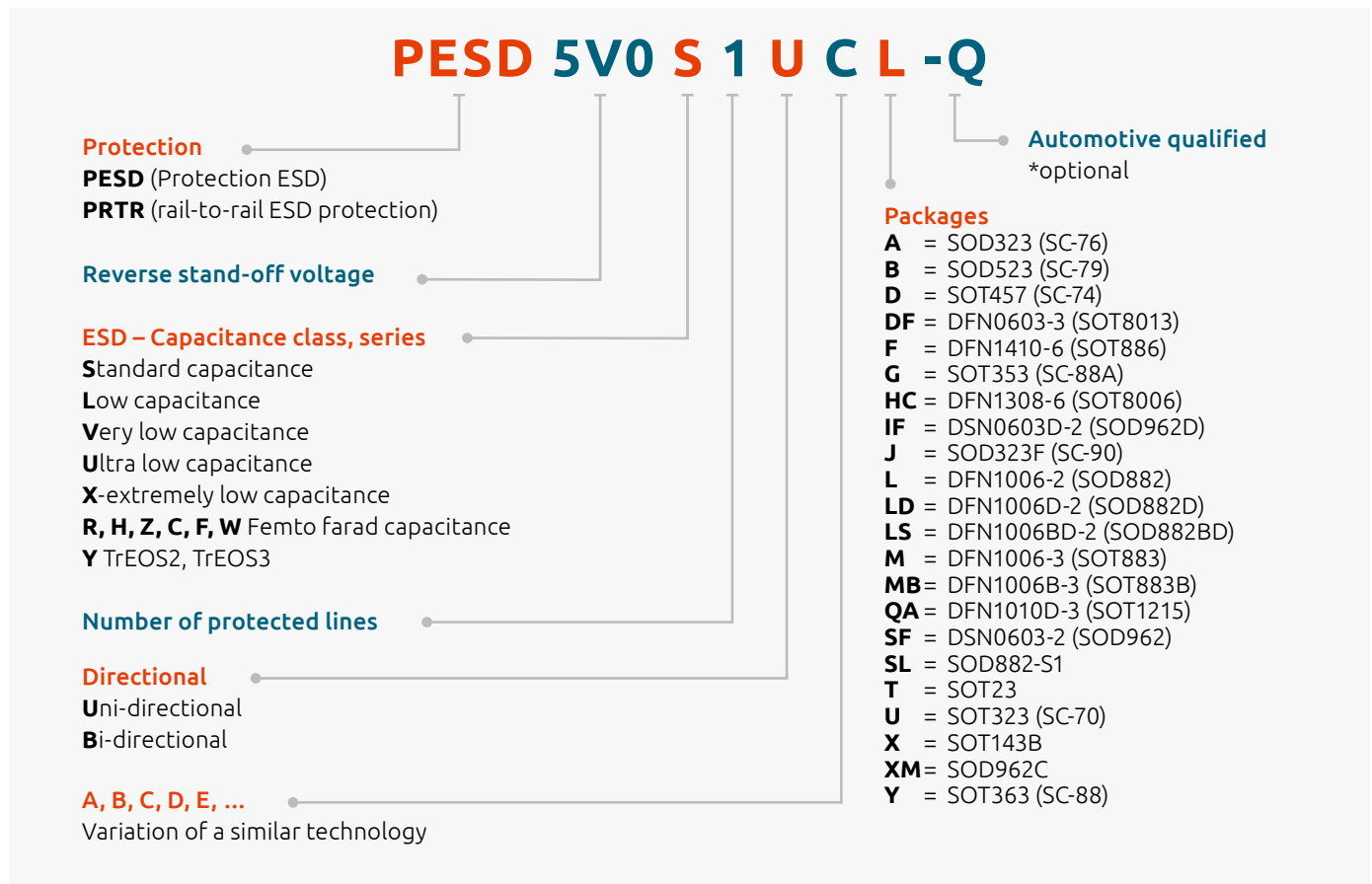
Types in **bold** represent new products

Power (W) (10/1000 µs waveform) [1]	Uni/Bi directional	V_{RWM} (V)	$V_{BR\ min}$ (V) @ I_R	$V_{BR\ typ}$ (V) @ I_R	$V_{BR\ max}$ (V) @ I_R	I_R (mA)	$V_{CL\ max}$ (V) @ $I_{PP}[1]$	I_{PP} (A) [1]	$I_{RM\ typ}$ (µA) @ V_{RWM}	$I_{RM\ max}$ (µA) @ V_{RWM}	Type ($T_j\ max = 150\ ^\circ C$)	Type ($T_j\ max = 185\ ^\circ C$)	Package	Size (mm)
600	Bi-directional	9	10	10.55	11.1	10	15.4	39		10	PTVS9V0P1BPL		 SOD128FL-1	4,275 x 2.6 x 1.0
		10	11.1	11.7	12.3	5	17	35.3		5	PTVS10VP1BPL			
		11	12.2	12.85	13.5	1	18.2	33		1	PTVS11VP1BPL			
		12	13.3	14	14.7	1	19.9	30.2		1	PTVS12VP1BPL			
		13	14.4	15.15	15.9	1	21.5	28		1	PTVS13VP1BPL			
		14	15.6	16.4	17.2	1	23.2	25.9		1	PTVS14VP1BPL			
		15	16.7	17.6	18.5	1	24.4	24.6		1	PTVS15VP1BPL			
		16	17.8	18.75	19.7	1	26	23.1		1	PTVS16VP1BPL			
		17	18.9	19.9	20.9	1	27.6	21.8		1	PTVS17VP1BPL			
		18	20	21.05	22.1	1	29.2	20.6		1	PTVS18VP1BPL			
		20	22.2	23.35	24.5	1	32.4	18.6		1	PTVS20VP1BPL			
		22	24.4	25.65	26.9	1	35.5	16.9		1	PTVS22VP1BPL			
		24	26.7	28.1	29.5	1	38.9	15.5		1	PTVS24VP1BPL			
		26	28.9	30.4	31.9	1	42.1	14.3		1	PTVS26VP1BPL			
		28	31.1	32.75	34.4	1	45.4	13.3		1	PTVS28VP1BPL			
		30	33.3	35.05	36.8	1	48.4	12.4		1	PTVS30VP1BPL			
		33	36.7	38.65	40.6	1	53.3	11.3		1	PTVS33VP1BPL			
		36	40	42.1	44.2	1	58.1	10.4		1	PTVS36VP1BPL			
		40	44.4	46.75	49.1	1	64.5	9.3		1	PTVS40VP1BPL			
		43	47.8	50.3	52.8	1	69.4	8.7		1	PTVS43VP1BPL			
		45	50	52.65	55.3	1	72.7	8.3		1	PTVS45VP1BPL			
		48	53.3	56.1	58.9	1	77.4	7.8		1	PTVS48VP1BPL			
		51	56.7	59.7	62.7	1	82.4	7.3		1	PTVS51VP1BPL			
		54	60	63.15	66.3	1	87.1	6.9		1	PTVS54VP1BPL			
		58	64.4	67.8	71.2	1	93.6	6.5		1	PTVS58VP1BPL			
		60	66.7	70.2	73.7	1	96.8	6.2		1	PTVS60VP1BPL			
		64	71.1	74.85	78.6	1	103	5.9		1	PTVS64VP1BPL			
		70	77.8	81.9	86	1	113	5.3		1	PTVS70VP1BPL			
		75	83.2	87.65	92.1	1	121	5		1	PTVS75VP1BPL			
		78	86.7	91.25	95.8	1	126	4.8		1	PTVS78VP1BPL			
		85	94.4	99.2	104	1	137	4.4		1	PTVS85VP1BPL			
		90	100	105.5	111	1	146	4.1		1	PTVS90VP1BPL			
		100	111	117	123	1	162	3.7		1	PTVS100VP1BPL			
		110	122	128.5	135	1	177	3.4		1	PTVS110VP1BPL			
		120	133	140	147	1	193	3.1		1	PTVS120VP1BPL			
		130	144	151.5	159	1	209	2.9		1	PTVS130VP1BPL			
		150	167	176	185	1	243	2.5		1	PTVS150VP1BPL			
		160	178	187.5	197	1	259	2.3		1	PTVS160VP1BPL			

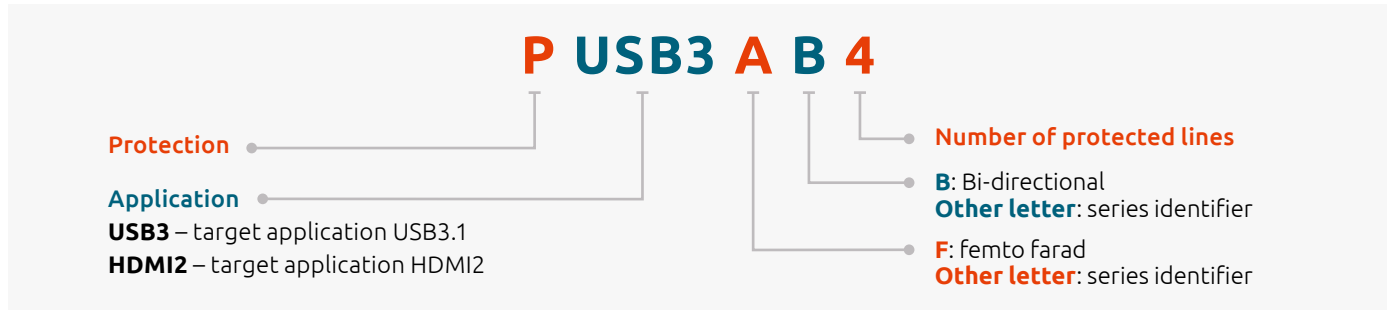
Automotive ESD protection nomenclature



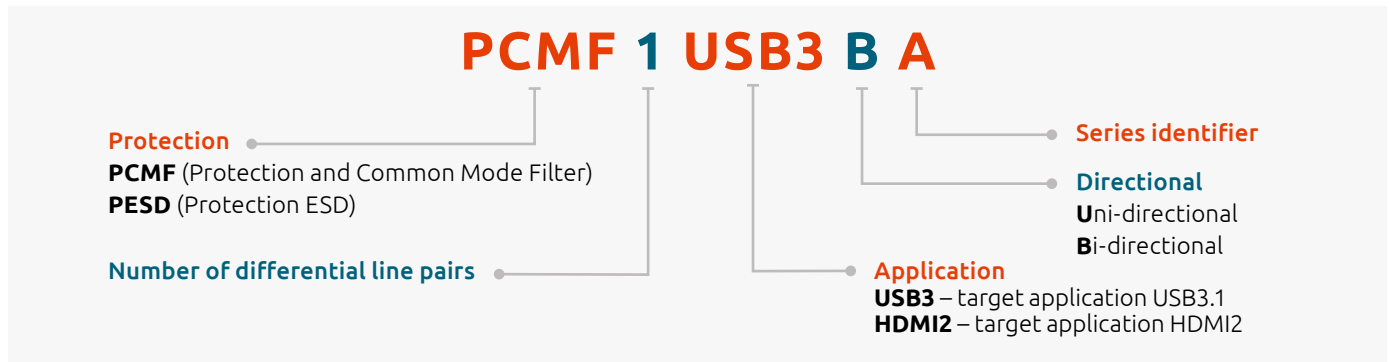
ESD protection devices nomenclature



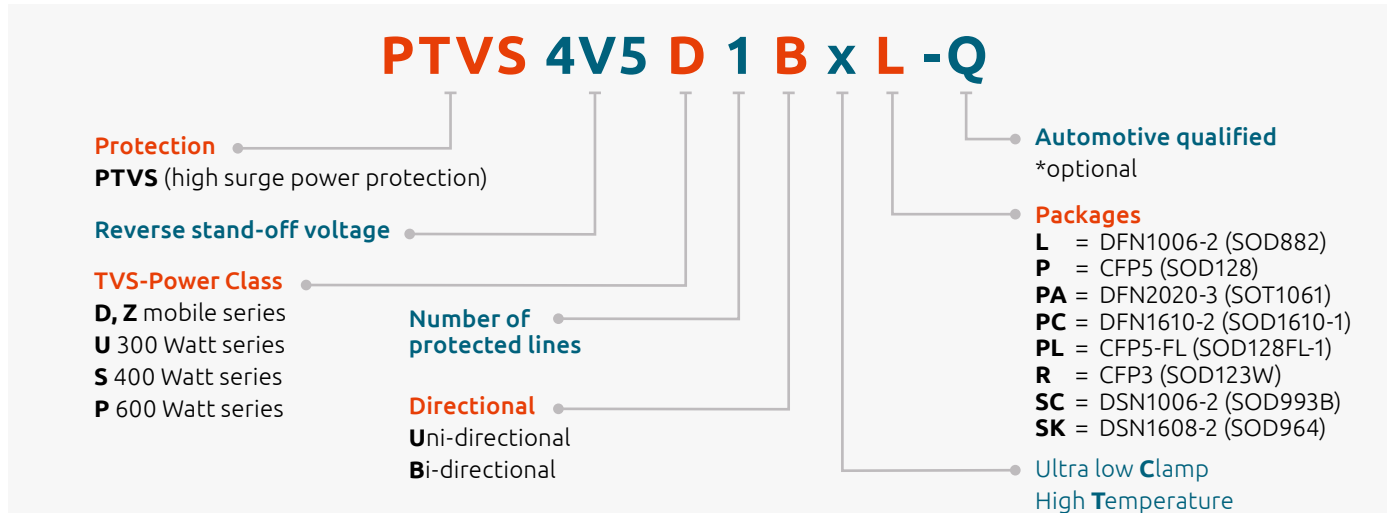
Multi-line ESD protection nomenclature



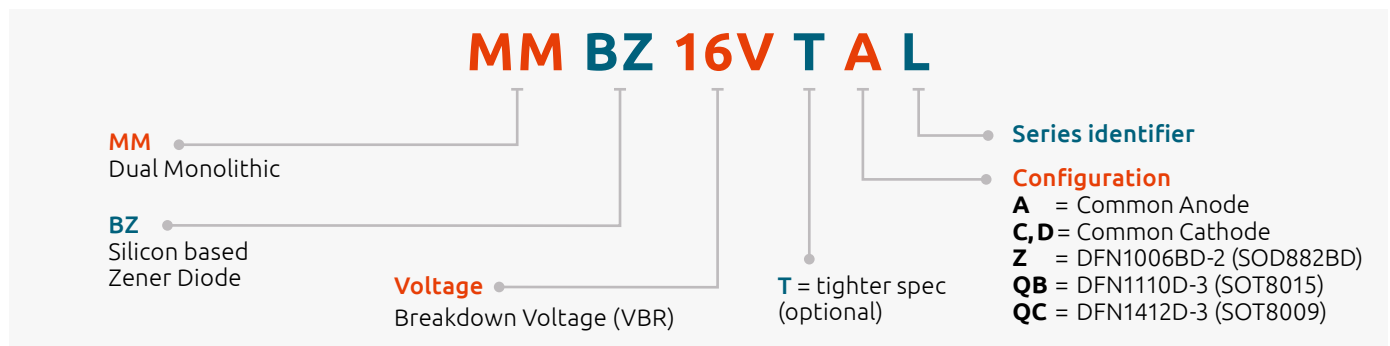
Common mode filters nomenclature



TVS protection nomenclature



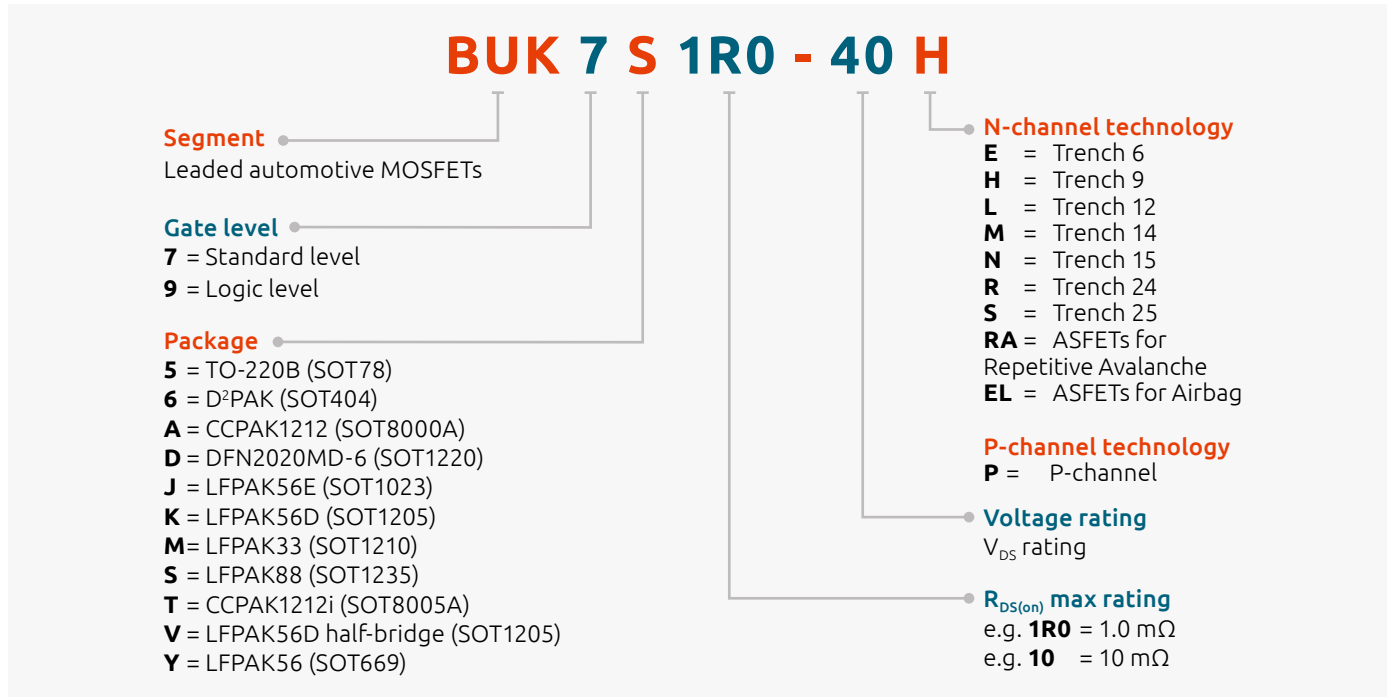
MMBZ series nomenclature



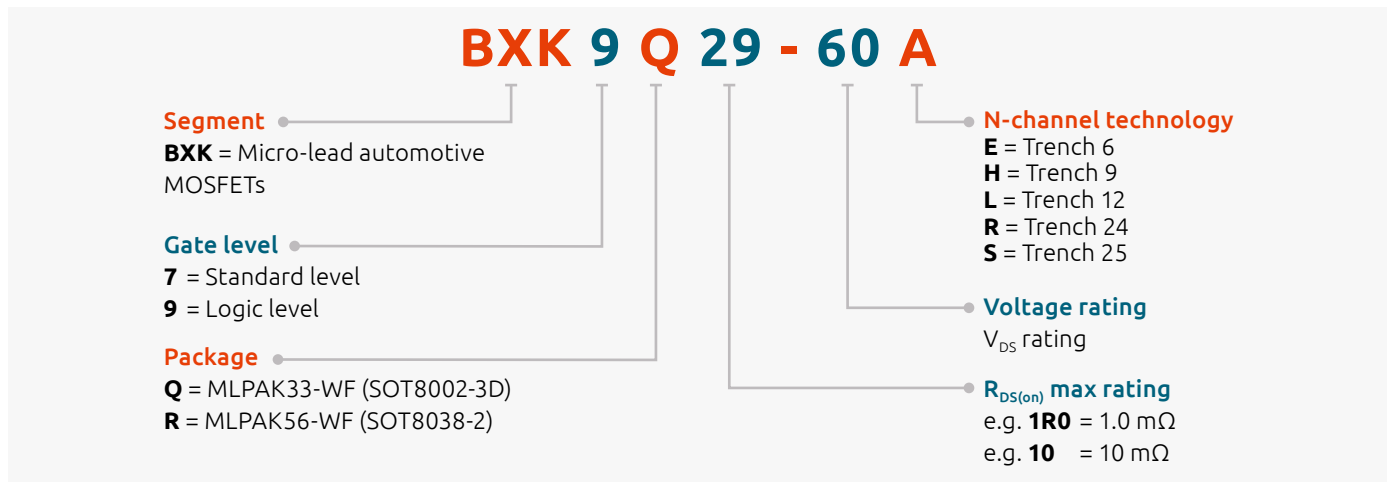


Automotive MOSFETs.....	98
Automotive grade leaded & application specific MOSFETs (ASFETs) nomenclature.....	98
Automotive grade micro-lead MOSFETs nomenclature.....	98
N-channel 30 V automotive power MOSFETs	98
N-channel 40 V automotive power MOSFETs	99
N-channel 55 V - 60 V automotive power MOSFETs.....	101
N-channel 75 V - 80 V automotive power MOSFETs.....	103
N-channel 100 V automotive power MOSFETs.....	104
P-channel 30 V - 60 V automotive power MOSFETs	105
Small-signal automotive MOSFETs – Low $R_{DS(on)}$	106
Small-signal automotive MOSFETs – High $R_{DS(on)}$	108
Small-signal automotive MOSFETs – Dual	108
Small-signal MOSFETs - Complementary	108
Power MOSFETs	110
N-channel 25 V - 30 V power MOSFETs.....	110
N-channel 40 V - 60 V power MOSFETs.....	112
N-channel 75 V - 200 V power MOSFETs	114
Premium & application specific MOSFETs nomenclature	116
Standard MOSFETs nomenclature	117
P-channel power MOSFETs.....	117
Small-signal MOSFETs	118
Small-signal MOSFETs in DFN0603, DFN0606, DFN1006 packages.....	118
Small-signal MOSFETs in DFN1010D-3 single and DFN1010B-3 dual packages	119
Small-signal MOSFETs in DFN2020MD-6 single and DFN2020-6 dual packages	120
Small-signal MOSFETs in DSN and WLCSP packages	121
Small-signal MOSFETs single (N-channel)	122
Small-signal MOSFETs single (P-channel).....	124
Small-signal MOSFETs dual.....	126
Small-signal MOSFETs complementary	126
Small-signal MOSFETs nomenclature	128

Automotive grade leaded & application specific MOSFETs (ASFETs) nomenclature



Automotive grade micro-lead MOSFETs nomenclature



N-channel 30 V automotive power MOSFETs

Package name	Type number	V _{DS} [max] (V)	R _{DS(on)} [max] @ 10 V (mΩ)	R _{DS(on)} [max] @ 5 V (mΩ)	I _D [max] @ 25 °C (A)	R _{th(j-mb)} [max] (K/W)
 LFPAK56D (SOT1205)	BUK9K5R1-30E	30	4.4	5.3	40	2.21
	BUK9K5R6-30E	30	4.7	5.8	40	2.36
	BUK7K5R1-30E	30	5.1		40	2.21
	BUK7K5R6-30E	30	5.6		40	2.36
 LFPAK33 (SOT1210)	BUK9M5R2-30E	30	4.1	5.2	70	1.89
	BUK9M6R6-30E	30	5.3	6.6	70	2
	BUK9M10-30E	30	7.8	10	54	2.75
	BUK9M17-30E	30	14	17	37	3.4

N-channel 40 V automotive power MOSFETs

types in **bold** represent new products

Package name	Type number	V_{DS} [max] (V)	$R_{DS(on)}$ [max] @ 10 V (m Ω)	$R_{DS(on)}$ [max] @ 5 V (m Ω)	I_D [max] @ 25 °C (A)	$R_{\theta(j-mb)}$ [max] (K/W)
 LFPAK88 (SOT1235)	BUK7S0R5-40H	40	0.55		500	0.4
	BUK7S0R7-40H	40	0.7		425	0.4
	BUK7S1R0-40H	40	1		325	0.4
	BUK7S1R2-40H	40	1.2		300	0.51
	BUK7S1R5-40H	40	1.5		260	0.62
	BUK7S2R0-40H	40	2.0		190	0.82
	BUK7S2R5-40H	40	2.5		140	1.11
 D ² PAK (SOT404)	BUK961R6-40E	40	1.4	1.6	120	0.43
	BUK761R6-40E	40	1.6		120	0.43
	BUK764R0-40E	40	4		75	0.82
	BUK768R1-40E	40	7.2		75	1.56
 LFPAK56E (SOT1023)	BUK9J0R9-40H	40	0.94	1.2	220	0.3
	BUK7J1R0-40H	40	1		220	0.3
	BUK7J1R4-40H	40	1.4		120	0.38
 LFPAK56; Power-SO8 (SOT669)	BUK7Y1R0-40N	40	0.9		320	0.56
	BUK9Y1R3-40H	40	1.3	1.8	190	0.38
	BUK7Y1R4-40H	40	1.4		190	0.38
	BUK9Y1R6-40H	40	1.6	2.2	120	0.51
	BUK7Y1R7-40H	40	1.7		120	0.51
	BUK9Y1R9-40H	40	1.9	2.6	120	0.69
	BUK7Y2R0-40H	40	2		120	0.69
	BUK9Y2R4-40H	40	2.4	3.2	120	0.79
	BUK9Y3R0-40E	40	2.5	3	100	0.77
	BUK7Y2R5-40H	40	2.5		120	0.79
	BUK9Y2R8-40H	40	2.8	3.9	120	0.87
	BUK7Y3R0-40H	40	3		120	0.87
	BUK7Y3R5-40H	40	3.5		120	1.3
	BUK7Y3R5-40E	40	3.5		100	0.9
	BUK9Y3R5-40E	40	3.6	3.8	100	0.9
	BUK9Y4R4-40E	40	3.7	4.4	100	1.02
	BUK7Y4R4-40E	40	4.4		100	1.02
	BUK9Y7R6-40E	40	6	7.6	79	1.58
	BUK9Y6R5-40H	40	6.5	7.9	70	2.35
	BUK7Y7R0-40H	40	7		68	2.35
	BUK9Y12-40E	40	10	12	52	2.31
	BUK7Y12-40E	40	12		52	2.31
	BUK9Y21-40E	40	17	21	33	3.33
	BUK7Y21-40E	40	21		33	3.33
	BUK9Y29-40E	40	25	29	25	4.03
	BUK7Y29-40E	40	29		26	4.03

N-channel 40 V automotive power MOSFETs

Types in **bold red** are in development.

Package name	Type number	V _{DS} [max] (V)	R _{DS(on)} [max] @ 10 V (mΩ)	R _{DS(on)} [max] @ 4.5 V or 5 V (mΩ)	I _D [max] @ 25 °C (A)	R _{th(j-mb)} [max] (K/W)
 LFPAK56D (SOT1205)	BUK7K3R5-40N	40	3.5		TBA	TBA
	BUK7V4R2-40H	40	4.2		98	1.76
	BUK7K6R2-40E	40	5.8		40	2.21
	BUK9K6R2-40E	40	6	6.2	40	2.21
	BUK9K6R8-40E	40	6.1	7.2	40	2.36
	BUK7K6R8-40E	40	6.8			2.36
	BUK9K8R7-40E	40	8	9.4	30	2.84
	BUK7K8R7-40E	40	8.5			2.84
	BUK9V13-40H	40	13	17	42	3
	BUK9K13-40H	40	14	17	42	3
	BUK9K18-40E	40	16	20	30	3.96
	BUK7K18-40E	40	19		24	3.96
	BUK9K25-40E	40	24	29	18	4.68
	BUK9K25-40RA	40	24	29	18.2	4.68
	BUK7K25-40E	40	25		27	4.68
 LFPAK33 (SOT1210)	BUK7M3R3-40H	40	3.3		80	1.48
	BUK9M3R3-40H	40	3.3	4.2	80	1.48
	BUK7M4R3-40H	40	4.3		95	1.67
	BUK9M4R3-40H	40	4.3	5.5	95	1.67
	BUK7M5R0-40H	40	5		85	1.81
	BUK9M5R0-40H	40	5	6.4	85	1.81
	BUK9M7R2-40E	40	5.8	7.2	70	1.89
	BUK7M6R0-40H	40	6		50	2.14
	BUK9M6R0-40H	40	6	7.7	50	2.14
	BUK7M6R3-40E	40	6.3		70	1.89
	BUK7M6R7-40H	40	6.7		50	2.32
	BUK9M6R7-40H	40	6.7	8.6	50	2.32
	BUK9M9R1-40E	40	7.3	9.1	64	2
	BUK7M8R0-40E	40	8		69	2
	BUK7M8R5-40H	40	8.5		40	2.56
	BUK9M8R5-40H	40	8.5	11	40	2.56
	BUK9M11-40E	40	9	11	53	2.43
	BUK7M9R5-40H	40	9.5		40	2.74
	BUK9M9R5-40H	40	9.5	12	40	2.74
	BUK7M10-40E	40	10		56	2.43
	BUK7M11-40H	40	11		35	3
	BUK9M11-40H	40	11	14	35	3
	BUK9M14-40E	40	11	14	44	2.75
	BUK7M12-40E	40	12		48	2.75
	BUK7M15-40H	40	15		30	3.44
	BUK9M15-40H	40	15	19	30	3.44
	BUK9M24-40E	40	20	24	30	3.4
	BUK7M20-40H	40	20		25	3.96
	BUK9M20-40H	40	20	25	25	3.96
	BUK7M21-40E	40	21		33	3.4
	BUK9M52-40E	40	40	52	18	4.8
	BUK7M45-40E	40	45		19	4.8
 MLPAK33-WF (SOT802-3D)	BXK7Q4R9-40H	40	4.9			
	BXK7Q6R0-40H	40	6			
	BXK7Q7R5-40H	40	7.5			
	BXK7Q8R4-40H	40	8.4			
	BXK7Q9R5-40H	40	9.5			
	BXK9Q7R0-40H	40	7			
	BXK9Q4R6-40H	40	4.6			
	BXK9Q12-40H	40	12			
 MLPAK56-WF (SOT8038-2)	BXK9R4R5-40H	40	4.5			

N-channel 55 V - 60 V automotive power MOSFETs

Package name	Type number	V_{DS} [max] (V)	$R_{DS(on)}$ [max] @ 10 V (m Ω)	$R_{DS(on)}$ [max] @ 5 V (m Ω)	I_D [max] @ 25 °C (A)	$R_{th(j-mb)}$ [max] (K/W)
 LFPAK56; Power-SO8 (SOT669)	BUK9Y4R8-60E	60	4.1	4.8	100	0.63
	BUK7Y4R8-60E	60	4.8		100	0.63
	BUK9Y6R0-60E	60	5.2	6	100	0.77
	BUK9Y7R2-60E	60	5.6	7.2	100	0.9
	BUK7Y6R0-60E	60	6		100	0.77
	BUK9Y7R0-60EL	60	6.2	7	100	0.63
	BUK7Y7R2-60E	60	7.2		100	0.9
	BUK9Y8R7-60E	60	7.5	8.7	86	1.02
	BUK9Y8R8-60EL	60	8	9	100	0.77
	BUK7Y8R7-60E	60	8.7		87	1.02
	BUK9Y13-60EL	60	11	13	73	1.02
	BUK7Y15-60E	60	15		53	1.59
	BUK9Y15-60E	60	13	15	53	1.58
	BUK9Y22-60EL	60	20	22	45	1.58
	BUK9Y25-60E	60	22	25	34	2.31
	BUK7Y25-60E	60	25		34	2.31
	BUK9Y43-60E	60	38	43	22	3.33
	BUK7Y43-60E	60	43		22	3.33
	BUK9Y59-60E	60	52	59	17	4.03
	BUK7Y59-60E	60	59		17	4.03
 LFPAK56D (SOT1205)	BUK7K12-60E	60	9.3		40	2.21
	BUK7K13-60E	60	10		40	2.36
	BUK9K12-60E	60	11	12	35	2.21
	BUK9K13-60RA	60	11.2	12.5	40	2.36
	BUK9K13-60E	60	12	13	40	2.36
	BUK7K17-60E	60	14		30	2.84
	BUK7K35-60E	60	30		21	3.96
	BUK9K35-60E	60	32	35	22	3.96
	BUK9K35-60RA	60	32	35	22	3.96
	BUK7K52-60E	60	45		15	4.68
	BUK9K52-60E	60	49	55	16	4.68
	BUK9K52-60RA	60	49	55	16	4.68

N-channel 55 V - 60 V automotive power MOSFETs

Package name	Type number	V_{DS} [max] (V)	$R_{DS(on)}$ [max] @ 10 V (mΩ)	$R_{DS(on)}$ [max] @ 5 V (mΩ)	I_D [max] @ 25 °C (A)	$R_{th(j-mb)}$ [max] (K/W)
 LFP33 (SOT1210)	BUK7M9R9-60E	60	9.9		60	1.89
	BUK9M12-60E	60	11	12	54	1.89
	BUK7M12-60E	60	12		53	2
	BUK9M15-60E	60	13	15	47	2
	BUK7M15-60E	60	15		43	2.43
	BUK9M20-60EL	60	17	20	46	1.89
	BUK9M19-60E	60	17	19	38	2.43
	BUK7M19-60E	60	19		36	2.75
	BUK9M24-60E	60	21	24	32	2.75
	BUK9M31-60EL	60	27	31	32	2.43
	BUK7M33-60E	60	33		24	3.4
	BUK9M42-60E	60	37	42	22	3.4
	BUK7M42-60E	60	42		20	4.17
	BUK9M53-60E	60	46	53	17	4.17
	BUK9M67-60EL	60	59	67	19	3.4
	BUK7M67-60E	60	67		14	4.8
	BUK9M85-60E	60	73	85	13	4.8
 MLP33 (SOT8002-3)	BXK9Q29-60E	60	29		21	5.5
 SC-73 (SOT223)	BUK9832-55A/CU	55	29	32	12	15
	BUK9880-55A/CU	55	73	80	7	15
	BUK7880-55A/CU	55	80		7	15
	BUK98150-55A/CU	55	137	150	5.5	
	BUK78150-55A/CU	55	150		5.5	

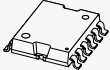
N-channel 75 V - 80 V automotive power MOSFETs

Types in **bold red** are in development, types in **bold** represent new products

Package name	Type number	V_{DS} [max] (V)	$R_{DS(on)}$ [max] @ 10 V (mΩ)	$R_{DS(on)}$ [max] @ 5 V (mΩ)	I_D [max] @ 25 °C (A)	$R_{th(j-mb)}$ [max] (K/W)
 LFPAK56; Power-SO8 (SOT669)	BUK7Y3R1-80M	80	3.1		254	0.59
	BUK7Y7R8-80E	80	7.8		100	0.63
	BUK9Y8R5-80E	80	8	8.5	100	0.63
	BUK7Y9R9-80E	80	9.9		89	0.77
	BUK9Y11-80E	80	10	11	84	0.77
	BUK9Y14-80E	80	14	15	62	1.02
	BUK7Y14-80E	80	14		65	1.02
	BUK9Y25-80E	80	25	27	37	1.58
	BUK7Y25-80E	80	25		39	1.58
	BUK9Y41-80E	80	41	45	24	2.33
	BUK7Y41-80E	80	41		25	2.31
	BUK9Y72-80E	80	72	78	15	3.33
	BUK7Y72-80E	80	72		16	3.33
	BUK9Y107-80E	80	98	107	12	4.03
	BUK7Y98-80E	80	98		12	4.03
 LFPAK56D (SOT1205)	BUK9K12-80L	80	12		51	2.21
	BUK7K15-80E	80	15		23	2.21
	BUK7K17-80E	80	17		21	2.36
	BUK9K20-80E	80	17	19	23	2.84
	BUK7K23-80E	80	23		17	2.21
	BUK9K22-80E	80	19	22	21	2.36
	BUK9K30-80E	80	26	30	17	2.84
	BUK9K49-80L	80	49		17	4.68
 LFPAK56E (SOT1023)	BUK7J2R4-80M	80	2		231	0.51
 LFPAK33 (SOT1210)	BUK9M13-80L	80	13		55	1.65
	BUK7M17-80E	80	17		43	1.89
	BUK9M23-80E	80	20	23	37	1.89
	BUK7M22-80E	80	22		37	2
	BUK9M24-80L	80	24		35	2.23
	BUK7M27-80E	80	27		30	2.43
	BUK9M28-80E	80	28	28	33	2
	BUK9M35-80E	80	35	35	26	2.43
	BUK9M48-80L	80	48		15	2.98
 MLPAK33-WF (SOT8002-3D)	BXK9Q14-80L	80	14			
	BXK9Q17-80L	80	17			
	BXK9Q22-80L	80	22			
	BXK9Q28-80L	80	28			
	BXK9Q34-80L	80	34			
	BXK9Q45-80L	80	45			

N-channel 100 V automotive power MOSFETs

Types in **bold red** are in development, types in **bold** represent new products

Package name	Type number	V _{DS} [max] (V)	R _{DS(on)} [max] @ 10 V (mΩ)	R _{DS(on)} [max] @ 5 V (mΩ)	I _D [max] @ 25 °C (A)	R _{th(j-mb)} [max] (K/W)
 LFPAK56; Power-SO8 (SOT669)	BUK9Y12-100E	100	12	12	85	0.63
	BUK7Y12-100E	100	12		85	0.63
	BUK9Y15-100E	100	15	15	69	0.77
	BUK9Y19-100E	100	18	19	56	0.9
	BUK7Y19-100E	100	19		56	0.9
	BUK9Y22-100E	100	22	22	49	1.02
	BUK7Y22-100E	100	22		49	1.02
	BUK9Y38-100E	100	38	38	30	1.58
	BUK7Y38-100E	100	38		30	1.58
	BUK9Y65-100E	100	64	65	19	2.31
	BUK7Y65-100E	100	65		19	2.31
	BUK9Y113-100E	100	110	113	12	3.33
	BUK7Y113-100E	100	113		12	3.33
	BUK9Y153-100E	100	146	153	9.4	4.03
	BUK7Y153-100E	100	153		9.4	4.03
 CCPAK1212 (SOT8000A)	BUK7A1R0-100L	100	0.99			
	BUK7A1R3-100L	100	1.3			
 CCPAK1212i (SOT8005A)	BUK7T1R0-100L	100	1.04			
	BUK7T1R4-100L	100	1.35			
 LFPAK56D (SOT1205)	BUK7K29-100E	100	25		29.5	2.21
	BUK9K29-100E	100	27	29	30	2.21
	BUK9K31-100L	100	31			
	BUK7K32-100E	100	28		29	2.36
	BUK9K32-100E	100	31	33	26	2.36
	BUK9K35-100L	100	35		23	3.57
	BUK7K45-100E	100	38		21	2.84
	BUK9K45-100E	100	42	45	21	2.84
	BUK9K61-100L	100	61			
	BUK7K89-100E	100	83		13	3.96
	BUK9K89-100E	100	85	89	13	3.96
	BUK7K134-100E	100	121		9.8	4.68
	BUK9K134-100E	100	154	159	8.5	4.68

N-channel 100 V automotive power MOSFETs

Types in **bold red** are in development, types in **bold** represent new products

Package name	Type number	V_{DS} [max] (V)	$R_{DS(on)}$ [max] @ 10 V (m Ω)	$R_{DS(on)}$ [max] @ 5 V (m Ω)	I_D [max] @ 25 °C (A)	$R_{th(j-mb)}$ [max] (K/W)
 LFPAK33 (SOT1210)	BUK9M34-100E	100	34	34	29	1.89
	BUK9M16-100L	100	16		45	1.65
	BUK9M43-100E	100	43	44	26	1.88
	BUK9M60-100L	100	60		19	2.98
	BUK9M120-100E	100	119	120	12	3.4
	BUK9M156-100E	100	150	156	9.3	4.17
 MLPAK33-WF (SOT8002-3D)	BXK9Q16-100L	100	16			
	BXK9Q19-100L	100	22			
	BXK9Q25-100L	100	29			
	BXK9Q32-100L	100	33			
	BXK9Q39-100L	100	46			
	BXK9Q50-100L	100	55			
 SC-73 (SOT223)	BUK98180-100A/CU	100	173	180	4.6	
	BUK9875-100A/CU	101	72	75	7	

P-channel 30 V - 60 V automotive power MOSFETs

Package name	Type number	V_{DS} [max] (V)	$R_{DS(on)}$ [max] @ 10 V (m Ω)	I_D [max] @ 25 °C (A)	$R_{th(j-mb)}$ [max] (K/W)
 LFPAK56; Power-SO8 (SOT669)	BUK6Y10-30P	30	10	80	1.4
	BUK6Y19-30P	30	19	45	2.3
	BUK6Y24-40P	40	14	39	2.3
	BUK6Y14-40P	40	15	64	1.4
	BUK6Y33-60P	60	33	38	1.4
	BUK6Y61-60P	60	61	22	2.3

Small-signal automotive MOSFETs – Low $R_{DS(on)}$

Package											
Size (mm)											
P_{tot} (mW)											
Polarity	V_{DS} (V)	V_{GS} (V)	I_D (A)	$V_{GS(th)}$ min (V)	$V_{GS(th)}$ max (V)	ESD protection (kV)	$R_{DS(on)}$ typ (mΩ) @ $V_{GS} =$				
							10 V	4.5 V	2.5 V	1.8 V	
N-channel	20	8	7	0.4	1	1	-	15	18	-	
			4.7	0.45	1	2	-	24	29	40	
			2.8	0.4	1	2	-	64	78	110	
		12	12.9	0.4	0.9	2	-	10	12	16	
			11.4	0.4	0.9	2	-	12	15	20	
			7.3	0.6	1.3	2	-	13	17		
			26	0.6	1.3	2	-	16	21	-	
			6.3	0.75	1.25	2	-	16	24	-	
	30	8	6	0.4	0.9	1	-	13	23	39	
			11.3	0.4	0.9	2	-	13	14	17	
		12	5	0.4	0.9	2	-	28	32	37	
			4	0.75	1.25	2	-	55	72	-	
			8.3	0.6	1.25	1	-	60	98	-	
		20	5.5 / 22	1	2.5	2	17	22	-	-	
			3.9 / 17	1	2.5	2	30	39	-	-	
	40	20	3.7 / 11	1	2.5	2	54	70	-	-	
			19	1.4	2.1	-	18	22	-	-	
			6.2 / 19	1.3	2.7	-	17	22	-	-	
			19	2.4	4	-	18	-	-	-	
			5 / 18	1.5	2.5	2	25	30	-	-	
			2.7	1	2.5	1	64	79	-	-	
			9	1	2.5	1	85	112	-	-	
	60	20	2.5 / 5.7	1	2.5	1	95	120	-	-	
			4.2 / 13	1.3	2.7	-	32	38	-	-	
			4.7 / 14	2.4	4	-	36	-	-	-	
			3.5 / 11	1.3	2.7	2	37	45	-	-	
			11	1.3	2.7	2	59	70	-	-	
			2.2 / 7.4	1.3	2.7	2	88	104	-	-	
			1.5 / 5.7	1.3	2.7	2	176	196	-	-	
	80	20	0.8	1.3	2.7	2	300	332	-	-	
			10	1.3	2.7	2	72	84	-	-	
	100	20	7	1.3	2.7	2	175	195	-	-	
			1.5	1.3	2.7	2	285	301	-	-	
P-channel	12	12	11.8	0.47	0.9	-	-	15	17	21	
	20	8	5.6	0.45	0.95	2	-	27	38	50	
			2	0.4	0.9	-	-	97	118	145	
			2	0.5	1.1	-	-	100	155	210	
			2.3	0.45	0.95	-	-	120	150	200	
		12	10.3	0.47	0.9	2	-	19	22	28	
			5	0.47	0.9	2.3	-	28	31	36	
			5.3	0.75	1.25	2	-	28	42	-	
			5	0.6	1.3	1	-	38	-	-	
			5.2 / 18	0.6	1.3	1	-	38	64	-	
			5	0.47	0.9	2	-	39	45	56	
			5.7	0.75	1.25	2	-	41	56	-	
			3.5	0.75	1.25	-	-	48	71	-	
			4.7	0.6	1.3	1	-	50	78	-	
			4.4	0.6	1.3	-	-	55	-	-	
			3.3	0.75	1.25	2	-	67	99	-	
			2.4	1	2.5	2	-	97	147	-	
			6.7	1	1.3	1	-	110	189	-	
	30	20	8.8	1	2.5	-	24	32	-	-	
			4.2	1	3	2	35	47	-	-	
	40	20	1.5	1	2.5	1	180	220	-	-	
			14	1.4	2.7	-	30	45	-	-	
	60	20	8	1.9	3.2	-	95	125	-	-	
			3	1.9	3.2	-	130	180	-	-	

	SOT457 (SC-74)	SOT23	DFN2020MD-6 (SOT1220)	DFN2020D-6 (SOT1118D)
				
	2.9 x 1.5 x 1.0	2.9 x 1.3 x 1.0	2.0 x 2.0 x 0.65	2.0 x 2.0 x 0.65
	600	250	1250	1250
		PMV15UNEA		
		PMV28UNEA		
		PMV65UNEA		
			PMPB10XNEA	
			PMPB12UNEA	
		PMV13XNEA		
			BUK4D16-20	
		PMV20XNEA	PMPB20XNEA	
		PMV19XNEA		
			PMPB13XNEA	
			PMPB29XNEA	
		PMV50XNEA		PMDPB56XNEA
			BUK4D60-30	
	PMN25ENEA	PMV15ENEA	BUK6D22-30E	
		PMV28ENEA	BUK6D38-30E	
		PMV52ENEA	BUK6D72-30E	
			BUK9D23-40E	
	PMN20ENA		BUK6D23-40E	
			BUK7D25-40E	
	PMN30ENEA	PMV30ENEA	BUK6D30-40E	
		PMV60ENEA		
			BUK6D120-40E	
		PMV130ENEA		
	PMN40ENA		BUK6D43-60E	
	PMN40SNA		BUK7D36-60E	
	PMN55ENEA	PMV37ENEA	BUK6D56-60E	
			BUK6D77-60E	
	PMN120ENEA	PMV88ENEA	BUK6D125-60E	
	PMN230ENEA	PMV164ENEA	BUK6D210-60E	
		PMV450ENEA		
			BUK6D81-80E	
			BUK6D230-80E	
	PMN280ENEA	PMV280ENEA	BUK6D335-100E	
			PMPB15XPA	
		PMV27UPEA		
		BSH205G2A		
		NX2301P		
		BSH205G2		
			PMPB20XPEA	
			PMPB29XPEA	
		PMV30XPEA		
	PMN30XPEA	PMV28XPEA		
	PMN30XPA	PMV30XPA	BUK4D38-20P	
			PMPB43XPEA	
	PMN42XPEA			
	PMN48XPA	PMV48XPA		
	PMN40XPEA			
	PMN48XPA2	PMV48XPA2		
		PMV65XPEA		
		PMV100XPEA		
			BUK4D110-20P	
			PMPB27EPA	
		PMV50EPEA		
		PMV250EPEA		
			BUK6D43-40P	
			BUK6D120-60P	
	PMN100EPA	PMV100EPA		

Small-signal automotive MOSFETs – High $R_{DS(on)}$

Package											
Size (mm)											
P_{tot} (mW)											
Polarity	V_{DS} (V)	V_{GS} (V)	I_D (A)	$V_{GS(th)}$ min (V)	$V_{GS(th)}$ max (V)	ESD protection (kV)	$R_{DS(on)}$ typ (m Ω) @ V_{GS} =				
							10 V	4.5 V	2.5 V	1.8 V	
N	30	8	0.4	0.6	1.1	2	-	1000	1400	2000	
	60	16	0.72	1.3	2.6	1	850	1100	-	-	
		20	0.36	0.9	1.5	-	900	1000	-	-	
			0.25	0.8	1.5	yes	2200	2700	3400	-	
			0.36	0.48	1.6	1.5	1000	1100	1400	-	
			0.24	1.3	2.6	yes	2200	2500	-	-	
			0.3	1	2.5	2	1000	1300	-	-	
P	30	8	0.23	0.6	1.1	2	-	2800	5300	-	
	50	12	0.27	1.1	2.1	1	7500	8500	-	-	
		20	0.2	1.1	2.1	1	5300	6000	-	-	

Small-signal automotive MOSFETs – Dual

Package											
Size (mm)											
P_{tot} (mW)											
Polarity	V_{DS} (V)	V_{GS} (V)	I_D (A)	$V_{GS(th)}$ min (V)	$V_{GS(th)}$ max (V)	ESD protection (kV)	$R_{DS(on)}$ typ (m Ω) @ V_{GS} =				
							10 V	4.5 V	2.5 V	1.8 V	
N	20	10	4.5	0.4	0.9	-	-	26	33	50	
	30	12	4	0.75	1.25	2	-	55	72	-	
P	20	10	3.6	0.47	1	-	-	50	62	83	

Small-signal MOSFETs - Complementary

Package	Type	Polarity	V_{DS} (V)	V_{GS} (V)	I_D (A)	V_{GSth} min (V)	V_{GSth} max (V)	
 SOT363 (SC-88) (2.0 x 1.25 x 0.95)	NX3008CBKS	N	30	8	0.35	0.6	1.1	
		P	30	8	0.2	0.6	1.1	
 DFN2020-6 (SOT1118) (2 x 2 x 0.65 mm)	PMCPB5530XA	N	20	10	4.5	0.4	0.9	
		P	20	10	3.6	0.47	1	
 SOT363 (SC-88) (2.0 x 1.25 x 0.95)	PMGD290UCEA	N	20	8	725	1	1	
		P	20	8	500	1	1	

	SOT23	SOT363 (SC-88)	SOT323 (SC-70)	DFN1110D-3 (SOT8015)
				
	2.9 x 1.3 x 1.0	2.0 x 1.25 x 0.95	2.0 x 1.25 x 0.95	1.1 x 1.0 x 0.47
	250	300	200	420
	NX3008NBK	NX3008NBKS	NX3008NBKW	
				2N7002KQB
	BSS138P	BSS138PS	BSS138PW	
	BSS138AK-Q	BSS138AKS-Q	BSS138AKW-Q	BSS138AKQB-Q
	BSS138BK	BSS138BKS	BSS138BKW	
	2N7002AK-Q	2N7002AKS-Q	2N7002AKW-Q	2N7002AKQB-Q
	2N7002BK	2N7002BKS	2N7002BKW	
	NX3008PBK	NX3008PBKS	NX3008PBKW	
				BSS84AKQB
	BSS84AK	BSS84AKS	BSS84AKW	

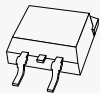
Types in **bold** represent new products

	DFN2020D-6 (SOT1118D)
	
	2.0 x 2.0 x 0.65
	1250
	PMDPB30XNA
	PMDPB56XNEA
	PMDPB55XPA

Types in **bold** represent new products

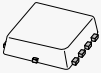
	t _{on} typ (ns)	t _{off} typ (ns)	Q _G typ (nC)	ESD protection (kV)	R _{DS(on)} typ (mΩ) @ V _{GS} =					
					10 V	4.5 V	2.5 V	1.8 V	1.5 V	1.2 V
	26	88	0.52	2	-	1000	1400	2000	-	-
	49	103	0.55	2	-	2800	5300	-	-	-
	7	10	6.6	-		26	33	50	-	-
	18	80	0.18	-		50	62	83	-	-
	6	86	0.15	2	-	290	420	1	-	-
	18	80	0.18	2	-	670	1	2	-	-

N-channel 25 V - 30 V power MOSFETs

Package	Type number	V_{DS} [max] (V)	$R_{DS(on)}$ [max] @ $V_{GS} = 10\text{ V}$ (m Ω)	$R_{DS(on)}$ [max] @ $V_{GS} = 4.5\text{ V or }5\text{ V}$ (m Ω)	I_D [max] (A)	$Q_{G(tot)}$ [typ] (nC)
 D²PAK (SOT404)	PSMNR90-30BL	30	1	1.4	120	118
	PSMN1R5-30BLE	30	1.5	1.85	120	108
	PSMN2R7-30BL	30	3	3.7	100	32
	PSMN3R4-30BL	30	3.3	3.8	100	31
	PSMN3R4-30BLE	30	3.4	5	120	37
	PSMN4R3-30BL	30	4.1	5.2	100	19
 LFPAK56E (SOT1023)	PSMNR51-25YLH	25	0.57	0.82	380	53
	PSMN0R7-25YLD	25	0.74	0.92	300	50.9
	PSMN1R2-25YL	25	1.2	1.9	100	50.6
	PSMNR58-30YLH	30	0.67	0.9	380	55
	PSMN0R9-30YLD	30	0.87	1.1	300	51
	PSMN1R3-30YL	30	1.3	2	100	46.6
 LFPAK56; Power-SO8 (SOT669)	PSMNR56-25YLE	25	0.56		320	54
	PSMNR60-25YLH	25	0.7	1.02	300	43
	PSMN0R9-25YLD	25	0.86	1.2	300	41.5
	PSMNR89-25YLE	25	0.89		270	54
	PSMNR98-25YLE	25	0.98		255	27
	PSMN1R0-25YLD	25	1.02	1.4	100	33.2
	PSMN1R1-25YLC	25	1.15	1.5	100	39
	PSMN1R2-25YLD	25	1.15	1.7	100	28
	PSMN1R2-25YLC	25	1.3	1.7	100	31
	PSMN1R6-25YLE	25	1.6		185	16
	PSMN1R7-25YLD	25	1.68	2.4	100	21.5
	PSMN2R0-25YLD	25	2	2.9	100	15.7
	PSMN2R9-25YLC	25	3.15	4.1	100	16
	PSMN4R0-25YLC	25	4.5	5.8	84	10.9
	PSMN5R4-25YLD	25	5.4	8.4	70	5.7
	PSMN6R0-25YLD	25	6.03	10	61	4.9
	PSMN6R0-25YLB	25	6.1	7.9	73	9
	PSMNR67-30YLE	30	0.67		365	52
	PSMNR70-30YLH	30	0.82	1.1	300	46
	PSMNR82-30YLE	30	0.82		330	41
	PSMN1R0-30YLE	30	1		275	33
	PSMN1R0-30YLD	30	1.02	1.3	300	38.2
	PSMN1R1-30YLE	30	1.1		265	28
	PSMN1R0-30YLC	30	1.15	1.4	100	50
	PSMN1R2-30YLD	30	1.24	1.6	100	32
	PSMN1R2-30YLC	30	1.25	1.7	100	38
	PSMN1R4-30YLD	30	1.42	1.9	100	27.6
	PSMN1R5-30YL	30	1.5	1.9	100	36.2
	PSMN1R5-30YLC	30	1.55	2.1	100	30
	PSMN1R7-30YL	30	1.7	2.1	100	36.2
	PSMN2R0-30YLD	30	2	2.5	100	21.8
	PSMN2R0-30YL	30	2	2.6	100	30
	PSMN2R0-30YLE	30	2	3.5	100	41
	PSMN2R1-30YLE	30	2		160	17
	PSMN2R2-30YLC	30	2.15	2.8	100	26
	PSMN2R4-30YLD	30	2.4	3.1	100	18
	PSMN2R5-30YL	30	2.4	3.2	100	27
	PSMN2R6-30YLC	30	2.8	3.7	100	18
	PSMN3R0-30YL	30	3	4	100	21
	PSMN3R0-30YLD	30	3	4	100	14.5
	PSMN3R5-30YL	30	3.5	4.6	100	19
	PSMN4R0-30YL	30	4	5.3	100	17.6
	PSMN4R0-30YLD	30	4	5.5	95	9.6
	PSMN4R1-30YLC	30	4.35	5.7	92	11
	PSMN4R5-30YLC	30	4.8	6.1	84	9.6
	PSMN5R0-30YL	30	5	6.7	91	14.1
	PSMN6R0-30YL	30	6	7.9	79	11
	PSMN6R0-30YLD	30	6	8.4	66	6.7
	PSMN6R1-30YLD	30	6.1	8.4	66	6.4
	PSMN6R0-30YLB	30	6.5	8.1	71	9

N-channel 25 V - 30 V power MOSFETs

Types in **bold red** are in development

Package	Type number	V _{DS} [max] (V)	R _{DS(on)} [max] @ V _{GS} = 10 V (mΩ)	R _{DS(on)} [max] @ V _{GS} = 4.5 V or 5 V (mΩ)	I _D [max] (A)	Q _{G(tot)} [typ] (nC)
 LFPK56; Power-SO8 (SOT669)	PSMN7R0-30YL	30	7	9.1	76	10
	PSMN7R0-30YLC	30	7.1	8.9	61	7.9
	PSMN7R5-30YLD	30	7.5	10	51	5.8
	PSMN9R1-30YL	30	9.1	14	57	8.4
	PSMN9R5-30YLC	30	9.8	12	44	5
	PSMN011-30YLC	30	11.6	15	37	4.9
	PSMN013-30YLC	30	13	17	32	4
 LFPK56-UL2595 (SOT1023A)	PSMN0R9-30ULD	30	0.87	1.09	300	109
 LFPK33 (SOT1210)	PSMN1R5-25MLH	25	1.81	2.7	150	17
	PSMN2R0-25MLD	25	2	3.1	70	15.9
	PSMN2R8-25MLC	25	2.8	3.8	70	16.3
	PSMN3R5-25MLD	25	3.51	5.4	70	8.7
	PSMN3R9-25MLC	25	4.15	5.6	70	9.7
	PSMN5R3-25MLD	25	5.3	8.4	70	5.9
	PSMN6R1-25MLD	25	6.13	10	60	4.9
	PSMN9R0-25MLC	25	8.65	11	55	5.4
	PSMN1R6-30MLH	30	1.9	2.6	160	41
	PSMN1R8-30MLH	30	2.1	2.9	150	17
	PSMN2R4-30MLD	30	2.4	3.2	70	16
	PSMN3R0-30MLC	30	3.15	4.1	70	16.1
	PSMN4R2-30MLD	30	4.3	5.7	70	9.2
	PSMN4R4-30MLC	30	4.65	6	70	10.6
	PSMN6R4-30MLD	30	6.4	8.3	66	6.5
	PSMN7R0-30MLC	30	7	9	67	8.2
	PSMN7R5-30MLD	30	7.6	10	57	5.8
	PSMN9R8-30MLC	30	9.8	12	50	5
	PSMN013-30MLC	30	13	17	39	3.7
	PSMN020-30MLC	30	18	27	31.8	4.6
 MLPAK33 (SOT8002)	PXN6R2-25QL	25	6.2	8.5	22.3	8.1
	PXN7R7-25QL	25	7.7	10.3	19	5.3
	PXN1R7-30QLA	30	1.7			
	PXN2R3-30QLA	30	2.3			
	PXN3R0-30QLA	30	3			
	PXN4R0-30RLA	30	4	5.6	77	
	PXN4R7-30QL	30	4.7	6	25	14.7
	PXN5R0-30QLA	30	5			
	PXN5R4-30QL	30	5.4	7.2	22	17.4
	PXN6R7-30QL	30	6.7	8.6	21.5	7.9
	PXN7R0-30QLA	30	7			
	PXN8R3-30QL	30	8.3	11.1	18.3	5.1
	PXN9R0-30QLA	30				
	PXN9R0-30QL	30	9.1	11	17.3	13.8
	PXN010-30QL	30	10.4	13.6	16.5	4
	PXN011-30QLA	30	11			
	PXN017-30QL	30	17.4	23.1	12	2.5
	PXN018-30QL	30	18	23	11.3	7.2
 MLPAK56 (SOT8038)	PXN0R6-30RLA	30	0.6			
	PXN0R7-30RLA	30	0.7			
	PXN0R8-30RLA	30	0.8			
	PXN1R0-30RLA	30	1.0			
	PXN1R5-30RLA	30	1.5			
	PXN2R0-30RLA	30	2.0			
	PXN3R0-30RLA	30	3.0			
	PXN4R0-30RLA	30	4.0			
	PXN5R0-30RLA	30	5.0			
	PXN7R0-30RLA	30	7.0			

N-channel 40 V - 60 V power MOSFETs

Types in **bold** represent new products
Types in **bold red** are in development

Package	Type number	V _{DS} [max] (V)	R _{DS(on)} [max] @ V _{GS} = 10 V (mΩ)	R _{DS(on)} [max] @ V _{GS} = 4.5 V or 5 V (mΩ)	I _D [max] (A)	Q _{G(tot)} [typ] (nC)
 LFPK88 (SOT1235)	PSMNR55-40SSH	40	0.55		500	267
	PSMNR70-40SSH	40	0.7		425	144
	PSMN1R0-40SSH	40	1		325	98
	PSMNR90-50SLH	50	0.92		410	228
	PSMN1R2-55SLH	55	0.97		330	226
 D²PAK (SOT404)	PSMN1R1-40BS	40	1.3		120	136
	PSMN2R2-40BS	40	2.2		100	130
	PSMN2R8-40BS	40	2.9		100	71
	PSMN4R5-40BS	40	4.5		100	35
	PSMN8R0-40BS	40	7.6		77	21
	PSMN1R7-60BS	60	2		120	137
	PSMN3R0-60BS	60	3.2		100	130
	PSMN4R6-60BS	60	4.4		100	70.8
	PSMN7R6-60BS	60	7.8		92	38.7
	PSMN015-60BS	60	15		50	20.9
 LFPK56E (SOT1023)	PSMNR70-40YSN	40	0.7		360	168
	PSMNR90-40YLH	40	0.94	1.2	300	54
	PSMN1R0-40YSH	40	1		290	87
	PSMN1R0-40YLD	40	1.1	1.4	280	127
	PSMN1R5-50YLH	50	1.6		220	51
	PSMN2R0-55YLH	55	2.24		200	50
	PSMN1R1-60YSF	60	1			
 LFPK56; Power-SO8 (SOT669)	PSMNR90-40YSN	40	0.97		320	135
	PSMN1R4-40YLD	40	1.4	1.85	240	96
	PSMN1R5-40YSD	40	1.5		240	71
	PSMN1R7-40YLB	40	1.8	2.3	200	79
	PSMN1R7-40YLD	40	1.8	2.3	200	78
	PSMN1R8-40YLC	40	1.8	2.1	100	96
	PSMN1R9-40YSD	40	1.9		200	57
	PSMN1R9-40YSB	40	1.9		200	56
	PSMN2R0-40YLB	40	2.1	2.7	180	28
	PSMN2R0-40YLD	40	2.1	2.7	180	66
	PSMN2R2-40YSB	40	2.2		180	49
	PSMN2R2-40YSD	40	2.2		180	45
	PSMN2R5-40YLB	40	2.6	3.3	160	25
	PSMN2R5-40YLD	40	2.6	3.3	160	56
	PSMN2R8-40YSB	40	2.8		160	37
	PSMN2R8-40YSD	40	2.8		160	44
	PSMN3R2-40YLB	40	3.3	4.2	120	19
	PSMN3R2-40YLD	40	3.3	4.2		120
	PSMN3R5-40YSB	40	3.5		120	30
	PSMN3R5-40YSD	40	3.5		120	31
	PSMN4R0-40YS	40	4.2			
	PSMN5R8-40YS	40	5.7		90	23.8
	PSMN8R3-40YS	40	8.6		70	20
	PSMN014-40YS	40	14		46	10
	PSMN4R0-60YS	60	4		100	56
	PSMN4R1-60YL	60	4.1	4.8	100	103
	PSMN5R2-60YL	60	5.2	6	100	78.4
	PSMN5R5-60YS	60	5.2		100	56
	PSMN5R6-60YL	60	5.6	7.2	100	66.8
	PSMN7R0-60YS	60	6.4		89	45
	PSMN7R5-60YL	60	7.5	8.7	86	60.6
	PSMN8R5-60YS	60	8		76	39
	PSMN012-60YS	60	11		59	28.4
	PSMN013-60YL	60	13	15	53	33.2
	PSMN030-60YS	60	15		29	13
	PSMN017-60YS	60	16		44	20

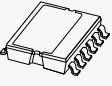
N-channel 40 V - 60 V power MOSFETs

Types in **bold** represent new productsTypes in **bold red** are in development

Package	Type number	V _{DS} [max] (V)	R _{DS(on)} [max] @ V _{GS} = 10 V (mΩ)	R _{DS(on)} [max] @ V _{GS} = 4.5 V or 5 V (mΩ)	I _D [max] (A)	Q _{G(tot)} [typ] (nC)
 LFP56D (SOT1205)	PSMN4R2-40VSH	40	4		53	33.2
	PSMN6R8-40HS	40	6.8		29	13
	PSMN8R0-40HL	40	8	9.4	44	20
	PSMN8R5-40HS	40	8.5		30	21.8
	PSMN014-40HLD	40	13.6	16.9	42	13
	PSMN013-40VLD	40	14	17	42	14
	PSMN9R3-60HS	60	9.3		40	34.2
	PSMN013-60HS	60	10		40	30.1
	PSMN011-60HL	60	10.7	11.5	35	24.5
	PSMN012-60HL	60	11.2	12.5	40	22.4
	PSMN013-60HL	60	11.2	12.5	40	22.4
	PSMN014-60HS	60	14		30	23.6
 LFP56-UL2595 (SOT1023A)	PSMN1R0-40ULD	40	1.1	1.4	280	59
 LFP33 (SOT1210)	PSMN3R3-40MLH	40	3.3	4.2	118	17
	PSMN3R3-40MSH	40	3.3		118	30
	PSMN4R3-40MLH	40	4.3	5.5	95	31
	PSMN4R3-40MSH	40	4.3		95	23
	PSMN5R0-40MLH	40	5	6.4	85	28
	PSMN5R0-40MSH	40	5		85	21
	PSMN6R7-40MLD	40	6.7	8.5	50	10
	PSMN6R7-40MSD	40	6.7		50	16
	PSMN8R5-40MLD	40	8.5	11	60	19
	PSMN8R5-40MSD	40	8.5		60	13.4
	PSMN011-60ML	60	11	13	61	37.2
	PSMN011-60MS	60	11		61	23
 MLP33 (SOT8002)	PXN5R7-60QLA	60	5.7	4.5 - 7.98	83	16.5
	PXN6R2-60QLA	60	6.2	4.5 - 8.7	77	14.1
	PXN6R8-60QLA	60	6.8	4.5 - 9.5	70	12.3
	PXN7R7-60QLA	60	7.7	4.5 - 10.8	62	11
	PXN9R1-60QLA	60	9.1	4.5 - 12.7	56	9.3
	PXN011-60QLA	60	11	4.5 - 15.4	46	7.8
	PXN014-60QLA	60	14	4.5 - 19.6	39	5.9
	PXN012-60QL	60	11.5	17.6	42	9.64
 MLP56 (SOT8038)	PXN4R1-60RLA	60	4.1			
	PXN5R0-60RLA	60	5			
	PXN5R9-60RLA	60	5.9			
	PXN7R3-60RLA	60	7.3			

N-channel 75 V - 200 V power MOSFETs

Types in **bold** represent new products

Package	Type number	V_{DS} [max] (V)	$R_{DS(on)}$ [max] @ $V_{GS} = 10\text{ V}$ (m Ω)	$R_{DS(on)}$ [max] @ $V_{GS} = 4.5\text{ V}$ or 5 V (m Ω)	I_D [max] (A)	$Q_{G(tot)}$ [typ] (nC)
 D ² PAK (SOT404)	PSMN2R8-80BS	80	3		120	139
	PSMN3R3-80BS	80	3.5		120	111
	PSMN4R4-80BS	80	4.5		100	125
	PSMN5R0-80BS	80	5.1		100	101
	PSMN6R5-80BS	80	6.9		100	71
	PSMN8R7-80BS	80	8.7		90	52
	PSMN012-80BS	80	11		74	36
	PSMN017-80BS	80	17		50	26
	PSMN3R8-100BS	100	3.9		120	170
	PSMN3R7-100BSE	100	3.95		120	176
	PSMN4R8-100BSE	100	4.8		120	196
	PSMN5R6-100BS	100	5.6		100	141
	PSMN7R0-100BS	100	6.8		100	125
	PSMN7R6-100BSE	100	7.6		75	128
	PSMN8R9-100BSE	100	9.4		108	128
	PSMN9R5-100BS	100	9.6		89	82
	PSMN013-100BS	100	14		68	59
	PSMN016-100BS	100	16		57	49
	PSMN027-100BS	100	27		37	30
	PSMN034-100BS	100	35		32	23.8
 CCPAK1212 (SOT8000A)	PSMNR90-80ASF	80	0.85		505	309
	PSMNR90-80ASE	80	0.9		495	336
	PSMN1R0-100ASF	100	0.99		460	359
	PSMN1R0-100ASE	100	1.04		430	339
	PSMN1R1-80ASF	80	1.11		385	242
	PSMN1R2-80ASE	80	1.18		375	233
	PSMN1R3-100ASF	100	1.3		355	255
	PSMN1R4-100ASE	100	1.36		340	244
 CCPAK1212i (SOT8005A)	PSMNR90-80CSF	80	0.9		505	309
	PSMN1R0-80CSE	80	0.95		495	336
	PSMN1R0-100CSF	100	1.04		460	359
	PSMN1R1-100CSE	100	1.09		430	339
	PSMN1R1-80CSF	80	1.16		385	242
	PSMN1R2-80CSE	80	1.23		375	233
	PSMN1R4-100CSF	100	1.35		355	255
	PSMN1R4-100CSE	100	1.42		340	244
 LFPAK56E (SOT1023)	PSMN2R6-80YSF	80	2.4		231	85
	PSMN3R5-80YSF	80	3.5		150	75
	PSMN4R2-80YSE	80	4.2		170	73
	PSMN3R9-100YSF	100	4		120	80
	PSMN4R8-100YSE	100	4.8		120	80

N-channel 75 V - 200 V power MOSFETs

Types in **bold** represent new products

Package	Type number	V_{DS} [max] (V)	$R_{DS(on)}$ [max] @ $V_{GS} = 10\text{ V}$ (m Ω)	$R_{DS(on)}$ [max] @ $V_{GS} = 4.5\text{ V or } 5\text{ V}$ (m Ω)	I_D [max] (A)	$Q_{G(tot)}$ [typ] (nC)
 LFP56; Power-SO8 (SOT669)	PSMN3R3-80YSF	80	3.3		160	70
	PSMN4R5-80YSF	80	4.5		100	60
	PSMN8R2-80YS	80	8.5		82	55
	PSMN010-80YL	80	10	11	84	84.7
	PSMN011-80YS	80	11		67	45
	PSMN013-80YS	80	12.9		60	37
	PSMN014-80YL	80	14	15	62	56.9
	PSMN018-80YS	80	18		45	26
	PSMN025-80YL	80	25	27	37	34.3
	PSMN026-80YS	80	28		34	20
	PSMN041-80YL	80	41	45	25	21.9
	PSMN045-80YS	80	45		24	12.5
	PSMN5R5-100YSF	100	5.6		115	64
	PSMN7R2-100YSF	100	6.9		111	50
	PSMN8R7-100YSF	100	8.7		100	39
	PSMN9R8-100YSF	100	10.2		80	34
	PSMN011-100YSF	100	10.9		79.5	34.3
	PSMN012-100YL	100	12	12	85	118
	PSMN012-100YS	100	12		60	64
	PSMN012-100YSF	100	11.8		65	29
	PSMN013-100YSE	100	13		82	75
	PSMN015-100YL	100	15	15	69	86.3
	PSMN015-100YSF	100	15.5		55	24
	PSMN016-100YS	100	16		51	54
	PSMN019-100YL	100	19	19	56	72.4
	PSMN021-100YL	100	21	22	49	65.6
	PSMN020-100YS	100	21		43	41
	PSMN028-100YS	100	28		42	33
	PSMN038-100YL	100	38	38	30	39.2
	PSMN039-100YS	100	39		28.1	23
	PSMN069-100YS	100	72		17	14
	PSMN059-150Y	150	59		43	27.9
	PSMN102-200Y	200	102		21.5	30.7
 LFP56D (SOT1205)	PSMN025-100HS	100	24.5		29.5	38.1
	PSMN029-100HL	100	27.0	29.0	30	29.6
	PSMN028-100HS	100	27.5		29	34.0
	PSMN033-100HL	100	31	33	26	27.3
	PSMN038-100HS	100	37.6		21.4	25.9
	PSMN045-100HL	100	42	45	21	18.5
 LFP33 (SOT1210)	PSMN040-100MSE	100	37		30	30
	PSMN075-100MSE	100	71		18	16.4

N-channel 75 V - 200 V power MOSFETs

Types in **bold** represent new productsTypes in **bold red** are in development

Package	Type number	V_{DS} [max] (V)	$R_{DS(on)}$ [max] @ $V_{GS} = 10\text{ V}$ (m Ω)	$R_{DS(on)}$ [max] @ $V_{GS} = 4.5\text{ V or } 5\text{ V}$ (m Ω)	I_D [max] (A)	$Q_{G(tot)}$ [typ] (nC)
 LFPK88 (SOT1235)	PSMN1R3-80SSF	80	1.2		335	164
	PSMN1R8-80SSF	80	1.8		270	148
	PSMN1R9-80SSE	80	1.9		286	155
	PSMN1R9-80SSJ	80	1.9			
	PSMN2R3-80SSF	80	2.3		240	123
	PSMN2R5-80SSE	80	2.5		225	116
	PSMN2R8-80SSF	80	3		205	95
	PSMN2R0-100SSF	100	2.07		267	161
	PSMN2R3-100SSE	100	2.28		255	161
	PSMN2R3-100SSJ	100	2.3			
	PSMN2R9-100SSE	100	2.9		385	125
	PSMN2R6-100SSF	100	2.6		200	127
	PSMN3R3-100SSF	100	3.3		180	106
 MLPAK33 (SOT8002-2)	PXN011-100QL	100	11		56	18
	PXN011-100QS	100	11		56	25
	PXN012-100QL	100	12		50	14
	PXN012-100QS	100	12		50	22
	PXN020-100QS	100	20		31	13
	PXN028-100QL	100	28		24	7
	PXN040-100QS	100	40		17	6.6
 MLPAK56 (SOT8038)	PXN2R8-100RL	100	2.8	4.5 - 3.4	184	51
	PXN2R9-100RS	100	2.9	4.5	180	74
 DFN2020M-6 (SOT1220-2)	PSMN047-100NSE	100	53.4		18	9
	PSMN071-100NSE	100	82.3		10	7

Premium & application specific MOSFETs nomenclature

PSM N R51 - 25 Y L H

Segment

PSM = Power Silicon Max

Channel

N = N-channel
P = P-channel
X = Dual
C = Complementary

$R_{DS(on)}$ in m Ω

R51 means 0.51 m Ω max at 25 °C
1R7 means 1.7 m Ω max at 25 °C
130 means 130 m Ω max at 25 °C

Voltage rating
 BV_{DSS} rating

Package type

A = CCPAK1212
B = D2PAK
C = CCPAK1212i
E = I2PAK
H = LFPK56D
M = LFPK33
N = DFN2020-2
P = TO-220
Q = MLPAK33
R = MLPAK56
S = LFPK88
U = LFPK56-UL2595
V = LFPK56D half-bridge
Y = LFPK56/E

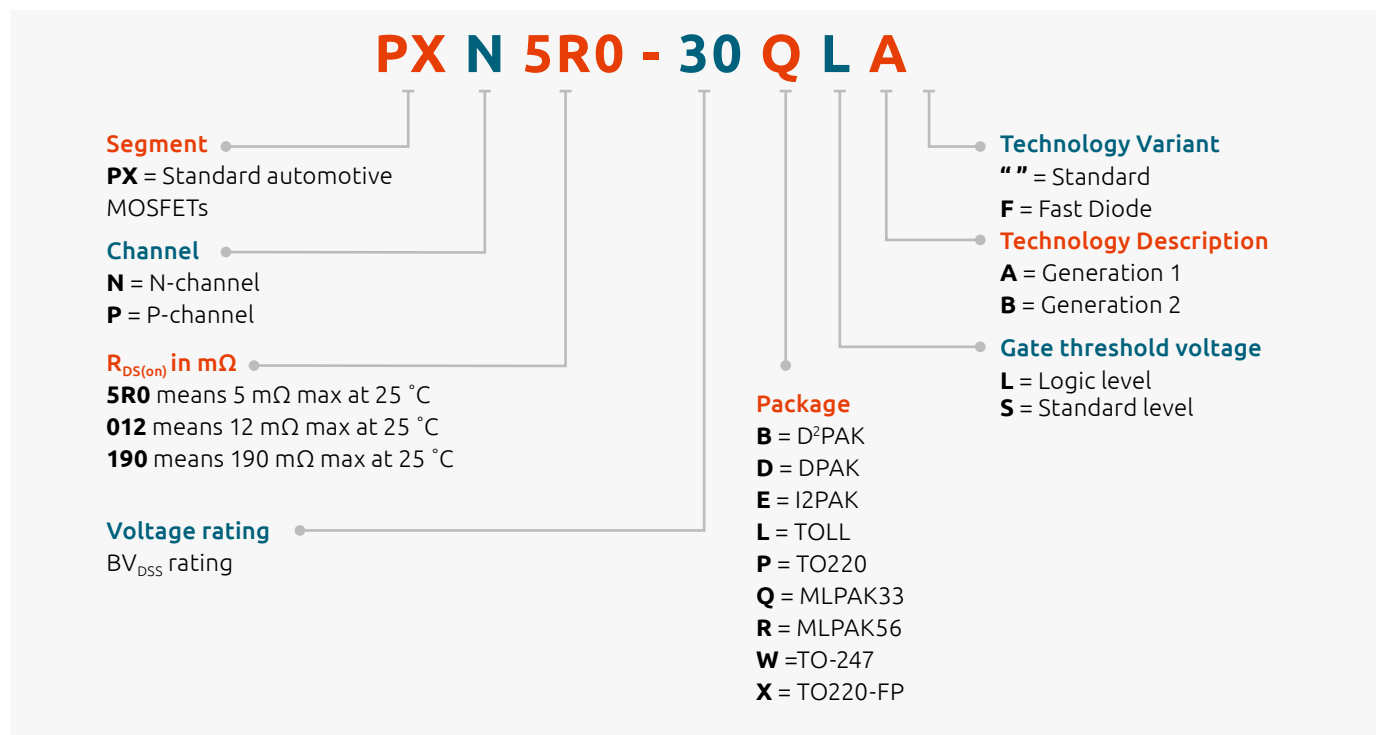
Technology family, e.g.

B = NextPowerS3 optimized for EMC
C = NextPower
D = NextPowerS3 (Super-fast switching with soft recovery)
E = ASFETs for Hotswap or PoE
F = NextPower 60/80/100/150 V
H = NextPowerS3 (Very low $R_{DS(on)}$)
J = ASFETs for Current Sharing
N = NextPowerS3 improved $R_{DS(on)}$ & EMC performance

Gate threshold voltage

E = Enhanced logic
L = Logic level
S = Standard level
U = Ultra low gate
X = Extremely low gate

Standard MOSFETs nomenclature



P-channel power MOSFETs

Types in **bold** represent new products

Package	Type number	V _{DS} [max] (V)	R _{DS(on)} [max] @ 10 V (mΩ)	I _D [max] @ 25 °C (A)	R _{th(j-mb)} [max] (K/W)
 LFP56 (Power-SO8)	PSMP033-60YE	60	33	38	1.4
	PSMP061-60YE		61	22	2.3
 MLP33 (SOT8002-2)	PXP3R7-12QU	12		31	
	PXP8R3-20QX	20	8	20	
	PXP011-20QX		11	17	
	PXP018-20QX		18	14	
	PXP020-20QX			12	
	PXP6R1-30QL	30	6	22	
	PXP6R7-30QL		7	21	
	PXP9R1-30QL		9	18	
	PXP012-30QL		12.8	15	
	PXP013-30QL		13	15	
	PXP015-30QL		15.8	12.8	
	PXP400-100QS	100	400	1.4	12
	PXP1500-100QS		1500	0.7	20.5
	PXP700-150QS	150	700	1	7.7

Small-signal MOSFETs in DFN0603, DFN0606, DFN1006 packages

Package															DFN0603 (SOT8013)	DFN0606-3 (SOT8001)	DFN1006-3 (SOT883)	DFN1006B-3 (SOT883B)	
Size (mm)															0.63 × 0.33 × 0.25	0.6 × 0.6 × 0.37	1.0 × 0.6 × 0.48	1.0 × 0.6 × 0.37	
P _{tot} (mW)															300	250	250	250	
Polarity	V _{DS} (V)	V _{GS} (V)	I _D (A)	V _{GS(th)} min (V)	V _{GS(th)} max (V)	t _{on} typ (ns)	t _{off} typ (ns)	Q _G typ (nC)	ESD protection (kV)	R _{DS(on)} typ (mΩ) @ V _{GS} =									
										10 V	4.5 V	2.5 V	1.8 V	1.5 V	1.2 V				
N-channel	20	8	1.9	0.45	0.95	5.3	16	1.6	2	-	120	160	210	270	-			PMZ130UNE	
				0.5	0.9				2		130						PMX100UNE		
			1.6	0.45	0.95	5.3	16	1.6	2	-	170	200	240	300	-				PMZB150UNE
			1	0.5	0.95	6	86	0.45	2	-	270	360	470	600	-			PMZ290UNE2	PMZB290UNE2
			1.2	0.45	0.95	1	4	0.18	1.8	-	310	420	-	-	-		PMH260UNE		
			0.9	0.45	0.95	1	4	0.15	1.7	-	460	575	-	-	-		PMH400UNE		
			0.8	0.45	0.95	5.6	19	0.4	1	-	470	620	845	1125	2210		PMH600UNE		
			0.6	0.45	0.95	5.6	19	0.4	1	-	470	620	845	1125	2210			PMZ600UNE	PMZB600UNE
	12	1.3	0.5	0.9	1	4	0.4			122	230	360			PMX100UN				
	30	8	1.5	0.45	0.95	5	17	1.6	2	-	210	240	270	300	-			PMZ200UNE	PMZB200UNE
				0.5	0.9				2		360						PMX300UNE		
			1	0.45	0.95	4	12	0.8	2	-	390	460	30	610	-			PMZ390UNE	PMZB390UNE
			0.77	0.45	0.95	4	12	0.6	2	-	550	660	770	890	-		PMH550UNE		
			0.59	0.45	0.95	4	12	0.6	2	-	550	660	770	890	-			PMZ550UNE	PMZB550UNE
	50	8	0.35	0.4	0.9	1	5	0.11	2	-	2800	3000	-	-	-		NX5008NBKH		
			0.35	0.4	0.9	3	17	0.1	2	-	2800	3000	-	-	-			NX5008NBKM	
	60	20	0.26	0.8	1.5	1	3	0			3		4				NX138AKH		
			0.27	0.8	1.5	1	3	0			3		4					NX138AKM	
			0.3	1	2.5	1	7	1			680	760					PMX700EN		
			0.5	1	2.5	2	20	0.1			800	870					PMX800ENE		
			0.45	1.1	2.1	5	12	0.5	2	1000	1300	-	-	-	-			2N700BKM	2N7002BKMB
			0.35	1.1	2.1	4.7	6.9	1	2	2200	2500	-	-	-	-		NX7002BKH		
			0.35	1.1	2.1	4.7	6.9	1	2	2200	2500	-	-	-	-			NX7002BKM	NX7002BKMB
			0.38	0.5	1.5	7.9	12.5	0.1	2	2300	2900	4800	-	-	-		NX138BKH		
			0.38	0.5	1.5	7.9	12.5	0	2	2300	2900	4800	-	-	-			NX138BKM	
P-channel	20	8	1.4	0.45	0.95	4	26	1.3	1.8	-	330	420	520	-	-			PMZ350UPE	PMZB350UPE
				0.5	0.9				2		430						PMX400UPE		
			0.8	0.45	0.95	2	5	0	1.8	-	640	930	-	-	-		PMH550UPE		
			0.53	0.45	0.95	2.3	13.5	1.19	1	-	1020	1270	1700	2300	3500		PMH950UPE		
			0.5	0.45	0.95	2.3	13.5	1.19	1	-	1020	1270	1700	2300	3500			PMZ950UPE	PMZB950UPE
		12	0.9	0.5	0.9	1.5	7	0.4			334	298	490			PMX400UP			
	30	8	1	0.45	0.95	2.9	22	1.45	2	-	430	470	750	950	-			PMZ320UPE	PMZB320UPE
				0.5	0.9				2		680						PMX800UPE		
			0.6	0.45	0.95	6	2	0.14	1.8	-	1000	1700	-	-	-		PMH850UPE		
			0.41	0.45	0.95	3	14	0.7	2	-	1200	1700	2100	3000	-			PMZ1200UPE	PMZB1200UPE
		10	0.52	0.45	0.95	3	14	0.7	2	-	1200	1700	2100	3000	-		PMH1200UPE		
	50	20	0.23	1.1	2.1	13	48	0.26	1	4500	5700	-	-	-	-			BSS84AKM	BSS84AKMB

Small-signal MOSFETs in DFN1010D-3 single and DFN1010B-3 dual packages

Package																DFN1010D-3 (SOT1215)	DFN1010B-6 (SOT1216)			
																				
Size (mm)																1.1 x 1.0 x 0.37	1.1 x 1.0 x 0.37			
P _{tot} (mW)																1000	350			
Configuration	Polarity	V _{DS} (V)	V _{GS} (V)	I _D (A)	V _{GS(th)} min (V)	V _{GS(th)} max (V)	t _{on} typ (ns)	t _{off} typ (ns)	Q _G typ (nC)	ESD protection (kV)	R _{DS(on)} typ (mΩ) @ V _{GS} =									
											10 V	4.5 V	2.5 V	1.8 V	1.5 V	1.2 V				
Single	N-channel	12	8	3.2	0.4	0.9	6	18	6.6	1	-	34	39	46	50	121	PMXB40UNE			
		20		3.2	0.5	0.9	6	17	5.7	1	-	42	48	56	64	-	PMXB43UNE			
		30	20	3.2	1	2	3	11	3.6	-	49	56	-	-	-	-	PMXB56EN			
				3.2	1	2.5	3	11	6	1	44	56	-	-	-	-	PMXB65ENE			
		80		1.1	1.3	2.7	2	9	3	2	345	390	-	-	-	-	PMXB360ENEA			
	P-channel	12	8	3.2	0.4	1	6.2	27	6.7	1.5	-	59	78	120	198	880	PMXB65UPE			
		20		2.9	0.4	1	6	29	6.8	1	-	69	86	130	205	950	PMXB75UPE			
				1.2	0.45	0.95	3	18	1.25	1.5	-	350	450	600	760	1200	PMXB350UPE			
		30	20	2.4	1	2.5	4	16	6.2	1	100	125	-	-	-	-	PMXB120EPE			
		Dual	N-ch	20	8	0.93	0.5	1	1	5	0.6	2		270	360	470	600		PMDXB290UNE	
0.6	0.45					0.95	5.6	19	0.4	1	-	470	620	845	1125	2210		PMDXB600UNE		
30				0.59	0.45	0.95	4	12	0.6	2	-	550	660	770	890	-		PMDXB550UNE		
60	20			0.26	1.1	2.1	4.7	6.9	1	2	2200	2500	-	-	-	-		PMDXB590UPE		
P-ch	20		8	0.5	0.45	0.95	2.3	13.5	1.19	1	-	1020	1270	1700	2300	3500		PMCXB290UE		
	30			0.41	0.45	0.95	3	14	0.7	2	-	1200	1700	2100	3000	-				
Complementary	N		20	8	0.6	0.45	0.95	5.6	19	0.4	1	-	470	620	845	1125	2210		PMCXB900UE	
	P				0.5	0.45	0.95	2.3	13.5	1.19	1	-	1020	1270	1700	2300	3500			
	N	30	8	0.59	0.45	0.95	4	12	0.6	2	-	550	660	770	890	-				
	P			0.41	0.45	0.95	3	14	0.7	2	-	1200	1700	2100	3000	-		PMCXB1000UE		

Small-signal MOSFETs in DFN2020MD-6 single and DFN2020-6 dual packages

Types in **bold** represent new products

Package														DFN2020MD-6 (SOT1220)	DFN2020M-6 (SOT1220-2)		
																	
Size (mm)														2.0 x 2.0 x 0.65	2.0 x 2.0 x 0.65		
P _{tot} (mW)														1250	1250		
Configuration	Polarity	V _{DS} (V)	V _{GS} (V)	I _D (A)	V _{GS(th)} min (V)	V _{GS(th)} max (V)	t _{on} typ (ns)	t _{off} typ (ns)	Q _G typ (nC)	ESD protection (kV)	R _{DS(on)} typ (mΩ) @ V _{GS} =						
											10 V	4.5 V	2.5 V	1.8 V			
Single	N-channel	20	8	13	0.4	0.9	5	31	20			4.9	8	14.9	PMPB4R6UN		
				10.1	0.4	0.9	5	31	20			9	10	16	PMPB8XN		
				11.4	0.4	0.9	10	32	10.9	1	-	16	20	20	PMPB12UNE		
				12.9	0.4	0.9	13	54	23	2.2	-	10	12	16	PMPB10XNE		
				5.9	0.75	1.25	16	49	31	2	-	14	20	-	PMPB20XNEA		
				10.4	0.4	0.9	9	31	13.4	-	-	18	21	23	PMPB15XN		
				10.1	0.4	0.9	9	31	11.6	2	-	19	23	31	PMPB23XNE		
			12	16.4	0.4	0.9	5	31	20	-		7	8.5	14.5		PMPB07R0UN	
		8	8	13.5	0.4	0.9	6	33	6		-	13	16	-	PMPB10XN		
				11.3	0.4	0.9	12	54	24	1	-	13	14	17	PMPB13XNE		
				5	0.4	0.9	8	33	12.4	1	-	28	32	37	PMPB29XNE		
				5.5	0.45	1.2	6	21	5.1	-	-	37	55	-	PMPB33XN		
				14	1	2	9	17	13.7		10	13			PMPB10EN		
				13	1	2	9	17	13.7	-	12	14	-	-	PMPB11EN		
			8	10.4	1	2	9	9	7.2	-	16.5	20.5	-	-	PMPB20EN		
				10	1	2.5	6	28	13	2	17	28	-	-	PMPB25ENE		
				6.9	1	2.5	4	17	6	2	30	39	-	-	PMPB50ENE		
				5.1	1	2.5	3	15	3.5	2	54	70	-	-	PMPB100ENE		
			12	17	0.5	1	6	31	22			6.4	9.3	26		PMPB06R3XN	
				15	0.4	0.9	4	18	8.2							PMPB07R3XN	
				15	1	1	6	31	7			9	12	26		PMPB08R5XN	
				13	0.4	0.9	4	18	8.1			9.1	11.1	14.6		PMPB09R1XN	
				13	0.4	0.9	3	16	6.6			10.3	12.5	16.1		PMPB10R3XN	
				10	0.4	0.9	3	10	4.3			13.7	17.5	24		PMPB13R6XN	
				10	0.4	0.9	3	10	4.3			14.8	18.4	24.6		PMPB14R8XN	
				10	0	0.9	8	33	2.1			17	20	27		PMPB16R5XNE	
		20	12	19	1.2	2.2	3	16	15			5.4	7.3			PMPB05R4EN	
				18	1	1.7	3	13	1.6			6.2	8			PMPB06R2EN	
				17	1	1.7	3	13	1.6		7	9				PMPB07R3EN	
		40		15	1	2	9	17	1.7		9	11				PMPB08R6EN	
				11.5	0	0.9	5	35	5.6	-	-	18	22	-		PMPB14XN	
		60	20	4	1.3	2.7	4.5	13.5	7.5	2	42	48	-	-		PMPB55ENE	
				3	1.3	2.7	4	10.5	6.2	2	72	85	-	-		PMPB85ENE	
		80	20	2.8	1.3	2.7	5	15	9.9	2	80	92	-	-		PMPB95ENE	
				1.9	1.3	2.7	3.5	9.5	4.8	2	175	195	-	-		PMPB215ENE	
	P-channel	12	8	17.5	0.47	0.9	3	201	7.4			7	9.2	12		PMPB07R3VP	
				16.7	0.47	0.9	4	149	7.6			8	11.5	16		PMPB08R4VP	
				14	0.4	0.9	7	69	8.3			11	15.2	22		PMPB11R2VP	
				13	0.4	0.9	7	69	26			13	17	24		PMPB13UP	
				12.7	0.45	0.9	6	64	22	-	-	14	19	24		PMPB14XP	
			12	15	0.4	0.9	6	86	10			10	13	20		PMPB09R5VP	
				11.8	0.47	0.9	18	85	67			15	17			PMPB15XP	
			20	8		0.45	0.9						13	17			PMPB12R5UPE
					20	8	0.9						16	22			PMPB19R0UPE
					12	0.47	0.9	16	43	28.8	-	-	19	21	27		PMPB19XP
		8		10.3	0.47	0.9	13	92	30	2.4	-	19	22	28		PMPB20XPE	
				5	0.47	0.9	12	91	30	2.3	-	28	31	36		PMPB29XPE	
		30	20	8.5	0.75	1.25	10	43	12.5	2	-	29	45	-		PMPB30XPE	
				7.9	0.47	0.9	12	62	15	-	-	30	35	45		PMPB33XP	
				5	0.47	0.9	15	28	14	-	-	47	54	74		PMPB47XP	
				20	12	1		3	60	6.2			14.5	19			PMPB14R7EP
					20	1	2.5	3	67				12.7	16			PMPB12R7EP
					12	1	2	2	145	5			14	18			PMPB14R0EP
			13		1	2	2	121	5			12.5	16			PMPB12R5EP	
			11		1	2.5	3	47	31	-		17.5	24			PMPB17EP	
			6.8	1	2.5	7.4	27	17	-		40	55	-	-	PMPB48EP		
			25	10.6	1	2.5	3	60	29		16	22			PMPB16EP		

Small-signal MOSFETs in DFN2020MD-6 single and DFN2020-6 dual packages

Package															DFN2020-6 (SOT1118)
															
Size (mm)															2.0 x 2.0 x 0.65
P _{tot} (mW)															1250
Configuration	Polarity	V _{DS} (V)	V _{GS} (V)	I _D (A)	V _{GS(th)} min (V)	V _{GS(th)} max (V)	t _{on} typ (ns)	t _{off} typ (ns)	Q _G typ (nC)	ESD protection (kV)	R _{DS(on)} typ (mΩ) @ V _{GS} =				
											10 V	4.5 V	2.5 V	1.8 V	
Dual	N-ch	20	12	5.3	0.4	0.9	4	40	14.4	-	-	32	40	60	PMDPB30XN
		30	12	3.1	0.75	1.25	9	19	2.9	2	-	55	72	-	PMDPB56XNEA
					0.5	1.5	6	18	1.65	1.8	-	95	130	-	PMDPB95XNE2
	P-channel	20	8	4.5	0.45	0.95	7	41	6.3	2	-	58	74	97	PMDPB58UPE
				3.7	0.45	0.95	6	47	5.4	2	-	82	107	142	PMDPB85UPE
			12	4.5	0.47	0.9	4	135	16.5	-	-	55	75	110	PMDPB55XP
		4.2		0.75	1.25	7	33	5	2	-	66	98		PMDPB70XPE	
				0.4	1	6	120	5.7	-	-	80	95	120	PMDPB80XP	
		30	12	3.8	0.45	1	3	112	5.2	-	-	70	89	-	PMDPB70XP
		Complementary	N	20	12	5.3	0.4	0.9	4	40	14.4	-	-	26	33
P	20		12	4.5	0.4	0.9	4	40	8.1	-	-	55	75	110	

Small-signal MOSFETs in DSN and WLCSP packages

Package														WLCSP4	WLCSP6	DSN1010-3	DSN1006-3	
																		
Size (mm)														0.78 × 0.78 × 0.35	1.48 × 0.98 × 0.35	0.96 × 0.96 × 0.24	1.0 × 0.6 × 0.2	
P _{tot} (mW)														1300	1300	2500		
Configuration	Polarity	V _{DS} (V)	V _{GS} (V)	I _D (A)	V _{GS(th)} min (V)	V _{GS(th)} max (V)	t _{on} typ (ns)	t _{off} typ (ns)	Q _G typ (nC)	ESD protection (kV)	R _{DS(on)} typ (mΩ) @ V _{GS} =							
											4.5 V	2.5 V	1.8 V	1.5 V				
Single	N	12	8	14	0.4	0.9	3	16	8	-	13	16	22	-			PMCA14UN	
				6	0.4	0.9	6.3	30	6	2	36	46	60	86	PMCM4401VNE			
		20	8	5.4	0.4	0.9	4	27	6	2	43	55	65	75	PMCM4401UNE			
		30	12	4.8	0.6	1.1	2	5	1		40	48	65				PMCB60XN	
					0.6	1.1				2	40	49				PMCB60XNE		
	P	12	8	4.9	0.4	0.9	4.8	25.1	6.8	2	55	77	110	-	PMCM4401VPE			
		20	8	4	0.4	0.9	4	31	5.9	2	75	95	130	-	PMCM4401UPE			
				4.2	0.4	0.9	4	26	6	2	65	88	120	-	PMCM4402UPE			
	N	12	8	9.6	0.4	0.9	10.8	97.5	16.1	2	15	18	22	30		PMCM6501VNE		
		20	8	8.7	0.4	0.9	7	100	19	2	17	20	22	30		PMCM6501UNE		
	P	12	8	8.2	0.4	0.9	8	72	19.6	2	19	25	37	-		PMCM6501VPE		

Small-signal MOSFETs single (N-channel)

Package													
Size (mm)													
P _{tot} (mW)													
V _{DS} (V)	V _{GS} (V)	I _D (A)	V _{GS(th)} min (V)	V _{GS(th)} max (V)	t _{on} typ (ns)	t _{off} typ (ns)	Q _G typ (nC)	ESD protection (kV)	R _{DS(on)} typ (mΩ) @ V _{GS} =				
									10 V	4.5 V	2.5 V	1.8 V	
20	8	7	0.4	1	10	32	11	0.5	-	15	18	-	
		4.7	0.45	1	8.2	39.5	6.2	2	-	24	29	40	
		2.5	0.45	1	5	9	6	-	-	41	48	57	
		1.9	0.4	1	8	31	2.2	2	-	63	77	114	
		2.2	0.4	1	6	21	2.6	2	-	64	78	110	
		1.9	0.45	0.95	5.3	16	1.6	2	-	120	155	195	
		1.6	0.45	0.95	5.3	16	1.6	2	-	155	190	235	
		1	0.5	0.95	6	86	0.45	2	-	270	360	470	
		0.6	0.45	0.95	5.6	19	0.4	1	-	470	620	845	
	12	6.3	0.75	1.25	16	44	9.9	2	-	16	24	-	
		8.6	0.47	0.9	7	135	7.7	-	-	15	18	22	
		9.1	0.4	0.9	9	31	12	1	-	15	19	22	
		7.3	0.6	1.3	4	15	3	2	-	17	25	-	
		5.4	0.4	0.9	7	35	6.2	-	-	24	30	40	
		6	0.4	0.9	5.5	22	5.1	1	-	28	38	42	
		2	0.4	0.9	4	32	5.8	-	-	50	57	66	
		2.3	0.4	0.9	4	32	1.4	-	-	50	57	66	
30	8	1.5	0.45	0.95	5	17	1.6	2	-	210	240	270	
		1	0.45	0.95	4	12	0.8	2	-	390	460	530	
		0.59	0.45	0.95	4	12	0.6	2	-	550	660	770	
		0.4	0.6	1.1	26	88	0.52	2	-	1000	1400	2000	
		7.2	0.4	0.9	8	33	12.4	2	-	19	22	17	
		5.7	0.4	0.9	9	34	7	-	-	33	42	54	
	12	4.4	0.4	0.9	9	34	7	-	-	36	43	56	
		3.4	0.6	1.25	2	7	1	1	-	60	102		
		1	0.75	1.25	2	6	0.2	2	-	230	295	470	
		0.9	0.5	1.5	8	11	0.74	2	-	234	324	-	
		7.6	1	2	9	9	7.2	-	17	21	-	-	
	20	5.5	1	2.5	8	33	12.6	2	17	22	-	-	
		3.9	1	2.5	6.3	14.1	6	2	28	36	-	-	
		3.1	1	2.5	18	78	6.5	-	28	37	-	-	
		4.5	1	2.5	3	11	6	1	30	44	-	-	
		5.1	1	2	3	11	3.6	-	35	43	-	-	
		2.1	1	2.5	3	15	2.6	2	70	90	-	-	
		0.18	0.8	1.5	10	51	0.34	-	2700	3000	4000	-	
40	20	6.2	1.3	2.7	2	12	11	-	19	23	-	-	
		5.4	1	2.5	4	20	7.8	2	23	30	-	-	
		2.7	1	2.5	6	12	4.1	1	64	79	-	-	
		2.5	1	2.5	14	14	2.4	1	95	120	-	-	
55	10	0.3	0.4	1.3	4	11	1	3	-	2300	2400	3100	
60	8	0.27	0.4	0.9	1	5	0	2	-	2	2	2	
	20	4.2	1.3	2.7	3	11	10	-	32	38	-	-	
		3.1	1.3	2.7	9	33	12.7	2	46	52	-	-	
		2.1	1.3	2.7	6.4	15.9	5.9	2	96	108	-	-	
		1.5	1.3	2.7	6.3	13	3.9	2	176	196	-	-	
		0.8	1.3	2.7	5.3	10.2	2.4	2	300	332	-	-	
		0.19	0.8	1.5	6	11	0.33	yes	2800	3500	4500	-	
		0.27	0.5	1.5	7.9	12.5	0.49	2	2100	2200	2600	-	
		0.1	0.6	1.4	2	5	-	2	2800	3800	-	-	
		0.19	1.1	2.1	12	34	0.33	yes	3000	3700	-	-	
		0.27	1.1	2.1	4.7	6.9	1	2	2200	2500	-	-	
100	20	1.5	1.3	2.7	4.8	9.3	4.5	1	285	300	-	-	

	SOT457 (SC-74)	SOT23	SOT323 (SC-70)
			
	2.9 x 1.5 x 1.0	2.9 x 1.3 x 1.0	2.0 x 1.25 x 0.95
	600	250	200
		PMV15UNEA	
	PMN28UNE	PMV28UNEA	
		NXV40UN	
			PMF63UNE
		PMV65UNE	
		PMV20XNEA	
		PMV16XN	
	PMN16XNE		
		PMV13XNEA	
		PMV30UN2	
	PMN30UNE		
		NXV50UN	
		NXV55UN	
		NX3008NBK	NX3008NBKW
		PMV20XNE	
	PMN30UN		
		PMV40UN2	
		PMV50XNEA	
		BSH103BK	
			PMF250XNE
		PMV20EN	
	PMN25ENE	PMV15ENE	
		PMV28ENE	
		PMV37EN2	
	PMN40ENE	PMV42ENE	
		PMV45EN2	
		PMV90ENE	
		NX3020NAK	NX3020NAKW
	PMN20ENA		
	PMN30ENEA	PMV30ENEA	
		PMV60ENEA	
		PMV130ENEA	
		BSH111BK	
		NX6008NBK	NX6008NBKW
	PMN40ENA		
	PMN55ENE	PMV52ENE	
	PMV30ENEA	PMV88ENE	
	PMN230ENE	PMV164ENE	
		PMV450ENEA	
		NX138AK	
		NX138BK	NX138BKW
		BSN20BK	
		2N7002NXAK	NX7002AKW
		2N7002NXBK	NX7002BKW
	PMN280ENEA	PMV280ENEA	

Small-signal MOSFETs single (P-channel)

Package													
Size (mm)													
P _{tot} (mW)													
V _{DS} (V)	V _{GS} (V)	I _D (A)	V _{GS(th)} min (V)	V _{GS(th)} max (V)	t _{on} typ (ns)	t _{off} typ (ns)	Q _G typ (nC)	ESD protection (kV)	R _{DS(on)} typ (mΩ) @ V _{GS} =				
									10 V	4.5 V	2.5 V	1.8 V	
20	8	5.6	0.45	0.95	11	83	14.7	2	-	27	38	50	
		5.3	0.45	0.95	41	122	14.7	2	-	30	38	51	
		5.4	0.45	0.95	34	128	15.5	-	-	34	42	57	
		4	0.47	0.9	400	2180	10.5	3	-	50	57	70	
		2	0.5	1	6	46	5.8	-	-	55	74	101	
		2	0.5	1	5	36	4.2	-	-	75	103	-	
		2	0.5	1.1	7	50	6	-	-	100	155	210	
		1.2	0.45	0.95	33	52	3.3	-	-	170	210	280	
	12	2.3	0.45	0.95	5	43	3.7	-	-	120	150	200	
		4.5	0.75	1.25	7.9	59	11	2	-	28	42	-	
		6.8	0.47	0.9	12	62	15	-	-	30	35	48	
		4.1 / 3.5	0.75	1.25	24	84	8.5	-	-	48	71	-	
		4.4	0.47	0.9	7	135	7.7	-	-	48	60	82	
		4.7	0.47	0.9	5.1	141	8.5	-	-	50	64	88	
		3.9	0.55	0.95	28	101	7.6	-	-	65	90	-	
		3.3	0.75	1.25	7	36	5	2	-	67	99	-	
		3.9	0.47	0.9	6	120	5	-	-	72	88	110	
		3.2	0.47	0.9	6	120	5	-	-	77	95	120	
		2	0.65	1.15	48	64	4.8	-	-	90	125	-	
		2.3	0.7	1.3	5.3	36	3.4	2	-	100	155	-	
		1	0.65	1.15	26	44	2.6	-	-	175	240	-	
	12	0.23	0.6	1.1	49	103	0.55	2	-	2800	5300	-	
		1.5	0.5	0.9	5	40	4.2	-	-	104	131	175	
	20	5.3	1	3	6	36	12.8	2	35	49	-	-	
		4.4	1	3	5	19	6.5	2	60	96	-	-	
		1.5	1	3	4	18	5.2	-	98	135	-	-	
40	20	1.8	1	2.5	10	40	4.7	1	180	220	-	-	
50	20	0.2	1.1	2.1	24	73	0.26	1	5300	6000	-	-	
100	25	1.2	2	4	8	23	2.6	-	365	-	-	-	

	SOT457 (SC-74)	SOT23	SOT363 (SC-88)	SOT323 (SC-70)
				
	2.9 x 1.5 x 1.0	2.9 x 1.3 x 1.0	2.0 x 1.25 x 0.95	2.0 x 1.25 x 0.95
	600	250	300	200
		PMV27UPE		
		PMV33UPE		
		PMV32UP		
		PMV50UPE		
		NXV65UP		
		NXV75UP		
		NX2301P		
		PMV160UP		
		BSH205G2		
	PMN30XPE	PMV30XPEA		
	PMN30XP			
	PMN48XP	PMV48XP		
		PMV50XP		
	PMN52XP			
		PMV65XP		
		PMV65XPE		
	PMN70XP			
		PMV75UP		
			PMG85XP	
		PMV100XPEA		
				PMF170XP
		NX3008PBK		NX3008PBKW
		NXV100XP		
	PMN50EPE	PMV35EPE		
	PMN70EPE	PMV74EPE		
		NXV90EP		
		PMV250EPEA		
		BSS84AK		BSS84AKW
		PMV240SP		

Small-signal MOSFETs dual

Package										
Size (mm)										
P _{tot} (mW)										
Polarity	V _{DS} (V)	V _{GS} (V)	I _D (A)	V _{GS(th) min} (V)	V _{GS(th) max} (V)	t _{on} typ (ns)	t _{off} typ (ns)	Q _c typ (nC)	ESD protection (kV)	
N-channel	20	8	0.93	0.5	1	1	5	0.6	2	
			0.6	0.45	0.95	5.6	19	0.4	1	
		12	5.3	0.4	0.9	4	40	14.4	-	
	30	8	0.59	0.45	0.95	4	12	0.6	2	
			0.35	0.6	1.1	26	88	0.52	2	
		12	3.1	0.75	1.25	9	19	2.9	2	
			3.1	0.5	1.5	6	18	1.65	1.8	
			1	0.5	1.5	6.5	14	0.7	2	
		20	0.18	0.8	1.5	10	51	0.34	yes	
	60	8	0.22	0.4	0.9	1	5	0.11	2	
		20	0.18	0.8	1.5	6	11	0.33	yes	
			0.26	0.5	1.5	7.9	12.5	0.49	2	
			0.17	1.1	2.1	12	34	0.33	yes	
			0.26	1.1	2.1	4.7	6.9	1	2	
P-channel	20	8	4.5	0.45	0.95	7	41	6.3	2	
			0.26	1.1	2.1	4.7	6.9	1	2	
			0.5	0.45	0.95	2.3	13.5	1.19	1	
			3.7	0.45	0.95	6	47	5.4	2	
		12	4.5	0.47	0.9	4	135	16.5	-	
			4.2	0.75	1	7	33	5	2	
			3.7	0.4	1	6	120	5.7	-	
			0.41	0.45	0.95	3	14	0.7	2	
	30	8	0.2	0.6	1.1	49	103	0.55	2	
		12	3.8	0.45	1	3	112	5.2	-	
	50	20	0.16	1.1	2.1	24	73	0.26	1	

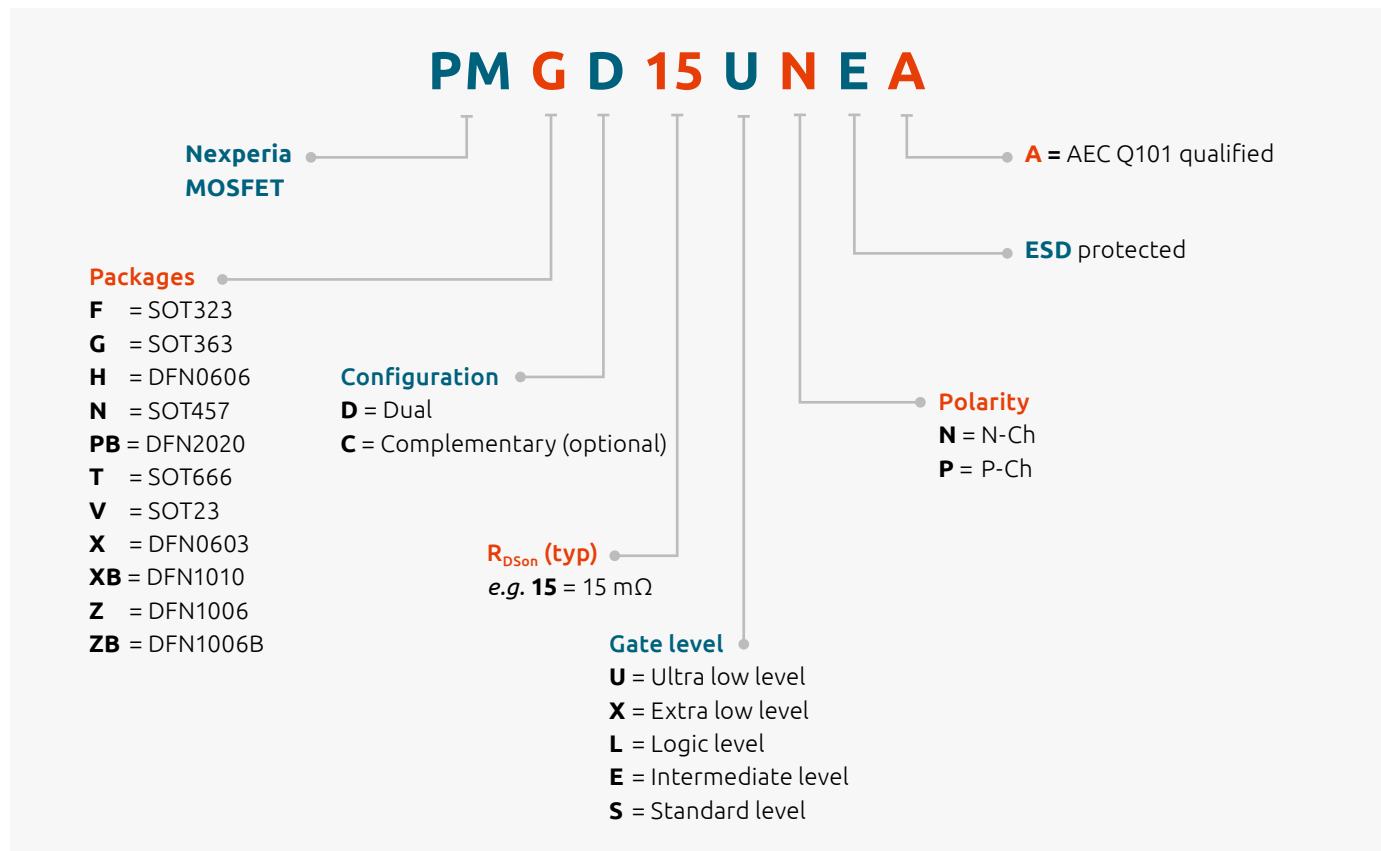
Small-signal MOSFETs complementary

Package	Type	Polarity	V _{DS} (V)	V _{GS} (V)	I _D (A)	V _{GSth} min (V)	V _{GSth} max (V)	
 SOT363 (SC-88) (2.0 x 1.25 x 0.95)	NX3008CBKS	N	30	8	0.35	0.6	1.1	
		P	30	8	0.2	0.6	1.1	
	NX6020CAKS	N	60	20	0.17	1.1	2.1	
		P	50	20	0.16	1.1	2.1	
 DFN1010B-6 (1.1 x 1.0 x 0.37)	PMCXB900UE	N	20	8	0.6	0.45	0.95	
		P	20	8	0.5	0.45	0.95	
	PMCXB1000UE	N	30	8	0.59	0.45	0.95	
		P	30	8	0.41	0.45	0.95	
 DFN2020-6 (2.0 x 2.0 x 0.65)	PMCPB5530X	N	20	12	5.3	0.4	0.9	
		P	20	12	4.5	0.47	0.9	

					SOT363 (SC-88)	DFN2020-6 (SOT1118)	DFN1010B-6 (SOT1216)
							
					2.0 x 1.25 x 0.95	2.0 x 2.0 x 0.65	1.0 x 1.0 x 0.37
					300	1250	350
	$R_{DS(on)}$ typ (m Ω) @ V_{GS} =						
	10 V	4.5 V	2.5 V	1.8 V			
	-	270	360	470			PMDXB290UE
	-	470	620	845			PMDXB600UNE
	-	32	40	60		PMDPB30XN	
	-	550	660	770			PMDXB550UNE
	-	1000	1400	2000	NX3008NBKS		
	-	55	72	-		PMDPB56XNEA	
	-	95	130	-		PMDPB95XNE2	
	-	170	240	-	PMGD175XNE		
	2700	3000	4000	-	NX3020NAKS		
		2700	2900	-	NX6008NBKS		
	2800	3500	4500	-	NX138AKS		
	2100	2200	2600	-	NX138BKS		
	3000	3700	-	-	NX7002AKS		
	2200	2500	-	-	NX7002BKS		NX7002BKXB
	-	58	74	97		PMDPB58UPE	
	-	590	980	1170			PMDXB590UPE
	-	1020	1270	1700			PMDXB950UPE
	-	82	107	142		PMDPB85UPE	
	-	55	75	110		PMDPB55XP	
	-	66	98	-		PMDPB70XPE	
	-	80	95	120		PMDPB80XP	
	-	1200	1700	2100			PMDXB1200UPE
	-	2800	5300	-	NX3008PBKS		
	-	70	89	-		PMDPB70XP	
	4500	5700	-	-	BSS84AKS		

	t_{on} typ (ns)	t_{off} typ (ns)	Q_G typ (nC)	ESD protection (kV)	$R_{DS(on)}$ typ (m Ω) @ V_{GS} =					
					10 V	4.5 V	2.5 V	1.8 V	1.5 V	1.2 V
	26	88	0.52	2	-	1000	1400	2000	-	-
	49	103	0.55	2	-	2800	5300	-	-	-
	6	20	0.33	yes	3000	3700				
	13	48	0.26	1	4500	5700				
	5.6	19	0.4	1	-	470	620	845	1125	2210
	2.3	13.5	1.19	1	-	1020	1270	1700	2300	3500
	4	12	0.6	2	-	550	660	770	890	-
	3	14	0.7	2	-	1200	1700	2100	3000	-
	19	56	14.4	-	-	26	33	50	-	-
	18	56	16.5	-	-	55	75	110	-	-

Small-signal MOSFETs nomenclature





Silicon carbide MOSFETs

5

Silicon carbide MOSFETs	132
Silicon carbide MOSFETs	132
SiC MOSFET nomenclature.....	133

Silicon carbide MOSFETs

Addressing the growing demand for high-power and highvoltage industrial applications, Nexperia's Silicon Carbide MOSFETs, with their excellent $R_{DS(on)}$ temperature stability, fast switching speed, and high short-circuit ruggedness, make them the product of choice for E-vehicle charging infrastructure, photovoltaic inverters, and motor drives.

Design benefits

- › Very low switching losses
- › Fast reverse recovery
- › Fast switching speed
- › Temperature independent turn-off switching losses
- › Very fast and robust intrinsic body diode
- › Faster commutation and improved switching due to the additional Kelvin source pin

Key technical features

- › Best-in-class $R_{DS(on)}$ temperature stability
- › Superior gate charge and beneficial gate charge ratio
 - Low power consumption of gate drivers
 - High tolerance against parasitic turn-on
- › Ultra small threshold voltage tolerance
- › Robust body diode with very low forward voltage
- › Lower leakage current up to 1200 V

Key applications

- › E-vehicle charging infrastructure
- › Photovoltaic inverters
- › Switch mode power supply
- › Uninterruptable power supply
- › Motor drives

Types in **bold red** are in development

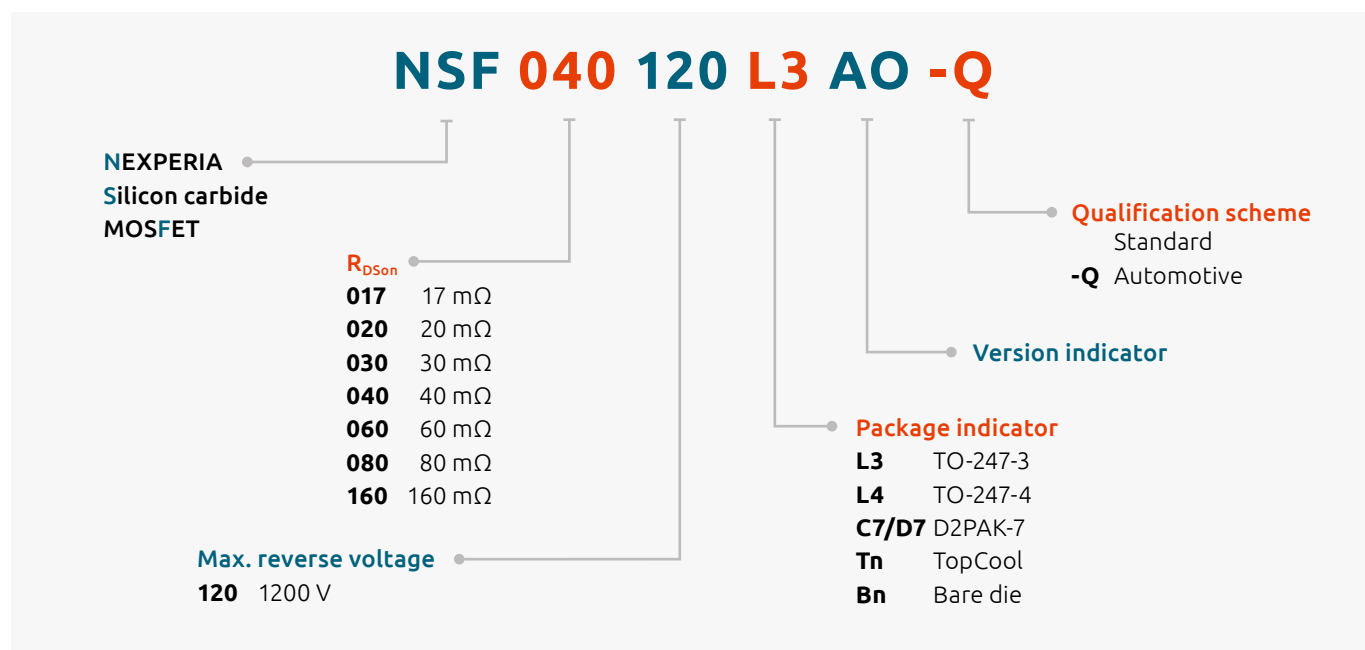
Type number	V_{DS} max (V)	$R_{DS(on)}$ typ (m Ω) @ $T_J = 25^\circ\text{C}$	I_D max (A) @ $T_C = 25^\circ\text{C}$	T_J max ($^\circ\text{C}$)	Package
NSF017120T1A0-Q	1200	17	107	175	 QDPAK
NSF017120T1A0		17	107		
NSF030120T1A0-Q		30	65		
NSF030120T1A0		30	65		
NSF040120T1A1-Q		40	51		
NSF040120T1A1		40	51		
NSF060120T1A0-Q		60	33		
NSF060120T1A0		60	33		
NSF080120T1A1-Q		80	31		
NSF080120T1A1		80	31		
NSF017120T2A0-Q		17	107		 X.PAK
NSF017120T2A0		17	107		
NSF030120T2A0-Q		30	65		
NSF030120T2A0		30	65		
NSF040120T2A1-Q		40	51		
NSF040120T2A1		40	51		
NSF060120T2A0-Q		60	33		
NSF060120T2A0		60	38		
NSF080120T2A1-Q		80	31		
NSF080120T2A1		80	31		
NSF017120C7A0-Q		17	107		 TO-263-7
NSF017120C7A0		17	107		
NSF030120D7A0-Q		30	65		
NSF030120D7A0		30	67		

Types in **bold red** are in development

Type number	V _{DS} max (V)	R _{DS(on)} @ 18 V V _{GS}	I _D max (A) @ TC = 25 °C	T _J max (°C)	Package
NSF040120D7A0	1200	30	65	175	 TO-263-7
NSF040120D7A1-Q		40	51		
NSF040120D7A1		40	51		
NSF060120D7A0-Q		60	33		
NSF060120D7A0		60	38		
NSF080120D7A0		60	33		
NSF080120D7A1-Q		80	31		
NSF080120D7A1		80	31		
NSF017120L4A0		17	107		 TO-247-4
NSF017120L4A0-Q		17	107		
NSF030120L4A0-Q		30	65		
NSF030120L4A0		30	67		
NSF040120L4A0		30	65		
NSF040120L4A1-Q		40	51		
NSF040120L4A1		40	51		
NSF060120L4A0-Q		60	33		
NSF060120L4A0		60	37		 TO-247-3
NSF080120L4A0		60	35		
NSF080120L4A1-Q		80	31		
NSF080120L4A1		80	31		
NSF030120L3A0		30	67		
NSF040120L3A0		30	65		
NSF060120L3A0		60	37		
NSF080120L3A0		60	35		

Silicon carbide
MOSFETs

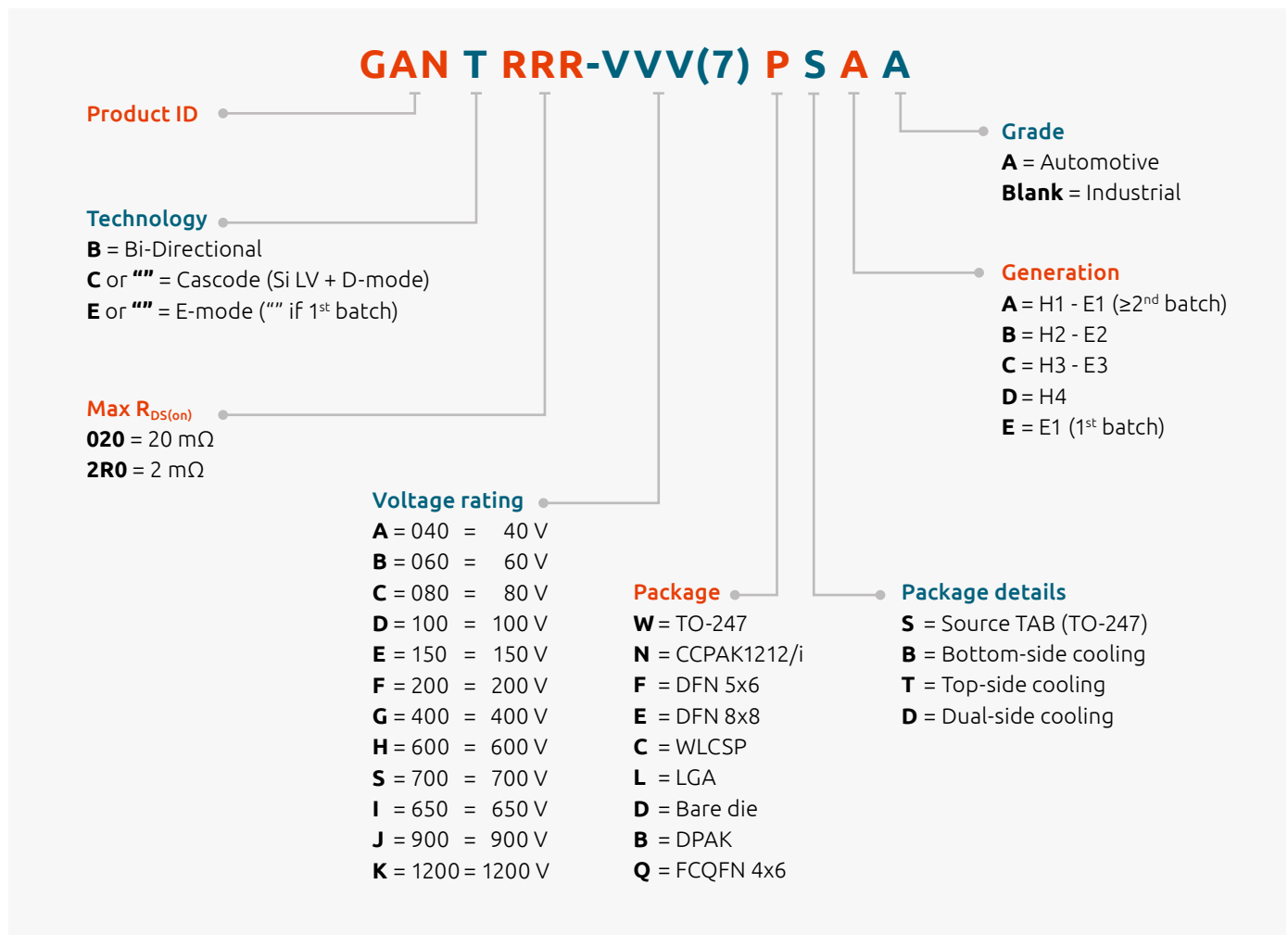
SiC MOSFET nomenclature





Power GaN FETs	136
Power GaN FETs naming conventions	136
Low voltage e-mode GaN FETs	137
650 - 700 V e-mode GaN FETs.....	137
Bi-directional e-mode GaN FETs	137
650 V cascode GaN FETs	137

Power GaN FETs naming conventions



Low voltage e-mode GaN FETs

Types in **bold** represent new products
Types in **bold red** are in development

Package	Type number	V _{DS} max (V)	R _{DS(on)} max @ V _{GS} = 5 V (mΩ)	T _j max (°C)	I _D max (A)	Q _{G(tot)} [typ] (nC)	Q _{oss} [typ] (nC)
WLCSP8 (SOT8072)	GAN3R2-100CBE	100	3.2	150	60	9.2	50
WLCSP6 (SOT8090)	GAN7R0-100CBA		7	150	29	4.5	25
WLCSP22 (SOT8089)	GAN2R7-100CBA		2.7	150	64	13	77
VQFN7 (SOT8091-1)	GAN1R8-100QBA		1.8	150	100	22	125
	GAN3R9-150QBA	150	3.9	150	100	20	130
FCLGA3 (SOT8073-1)	GAN7R0-150LBE		7	150	28	7.6	47

650 - 700 V e-mode GaN FETs

Package	Type number	V _{DS} max (V)	R _{DS(on)} max @ V _{GS} = 6 V (mΩ)	T _j max (°C)	I _D max (A)	Q _{G(tot)} [typ] (nC)	Q _{oss} [typ] (nC)
DFN5060-5 (SOT8075-1)	GAN140-650FBE	650	140	150	17	3.5	33
	GAN190-650FBE		190	150	11.5	2.8	24.5
	GAN350-650FBA		350	150	6	1.5	60
	GAN600-650FBA		600	150	3.3	0.7	7.3
DFN8080-8 (SOT8074-1)	GAN080-650EBE		80	150	29	6.2	60
	GAN140-650EBE		140	150	17	3.5	33
	GAN190-650EBE		190	150	11.5	2.8	24.5
DPAK (SOT428-2)	GAN140-700BBA	700	140	150	17	3.5	33
	GAN190-700BBA		190	150	11.5	2.8	24.5
	GAN240-700BBA		240	150	10	2	21
	GAN350-700BBA		350	150	6	1.5	13

Bi-directional e-mode GaN FETs

Package	Type number	V _{DS} max (V)	R _{DS(on)} max @ V _{GS} = 5 V (mΩ)	T _j max (°C)	I _D max (A)	Q _{G(tot)} [typ] (nC)	Q _{oss} [typ] (nC)
VQFN16 (SOT8092-1)	GANB1R2-040QBA	40	1.2	125	100	60	45
WLCSP22 (SOT8086)	GANB4R8-040CBA		4.8	125	20	15.8	12.2
WLCSP16 (SOT8087)	GANB8R0-040CBA		8	125	14	10.1	8
WLCSP12 (SOT8088)	GANB012-040CBA		12	125	10	7.2	5.6

650 V cascode GaN FETs

Package	Type number	V _{DS} max (V)	R _{DS(on)} max @ V _{GS} = 10 V (mΩ)	T _j max (°C)	I _D max (A)	Q _{G(tot)} [typ] (nC)	Q _{oss} [typ] (nC)
CCPAK1212 (SOT8000)	GAN039-650NBB	650	39	150	58.5	26	173
CCPAK1212i (SOT8005)	GAN039-650NTB		39	150	58.5	26	173
TO-247-3L (SOT429-3)	GAN041-650WSB		41	175	47.2	22	150
TO-247-3 (SOT429)	GAN063-650WSA (NRND)		60	175	34.5	15	125
	GAN111-650WSB		114	175	21	4.9	65



IGBTs..... 140

650 V IGBTs..... 140

650 V IGBTs

Addressing the growing demand for efficient, high-voltage power conversion and motor drives, Nexperia's IGBTs feature a robust and cost-effective carrier stored trench-gate (CSTBT) advanced field-stop (FS) construction. Delivering high ruggedness reliability and enhanced inverter power density for industrial applications.

Design Benefits

- › Low conduction and switching losses
- › High ruggedness reliability
- › Stable and tight parameters for easy parallel operation
- › Maximum junction temperature of 175 °C
- › Fully rated as a Soft Fast Reverse Recovery Diode
- › 5 µs short circuit capability (For M3)
- › Enabling outstanding system efficiency and reliability

Key applications

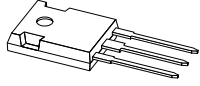
- › Industrial motor drives – particularly 5 <-> 20 kW (20 kHz) servo motors
 - robotics, elevators, operating grippers, in-line manufacturing
- › Power inverters
 - Uninterruptible Power Supply (UPS)
 - photovoltaic (PV) strings
 - EV-charging
- › Induction heating, welding

Key technical features

- › Ultra low diode Vf
- › Ultra low IGBT turn off loss
- › Trade off for total power loss

650 V products

Types in **bold red** are in development

Type name	Voltage / Current @ Tc=100°C	IGBT type	Copak Diode rating	SCWT	Package
NGW40T65M3DFP	650 / 40	MS	full	5µs	 TO-247-3L
NGW50T65H3DFP	650 / 50	HS			
NGW75T65H3DF	650 / 75	HS			
NGW30T65M3DFP	650 / 30	MS		5µs	
NGW50T65M3DFP	650 / 50	MS		5µs	
NGW60T65M3DFP	650 / 60	MS		5µs	
NGW75T65M3DFP	650 / 75	MS		5µs	
NGW40T65H3DFP	650 / 50	HS			
NGW75T65H3DFP	650 / 75	HS			



Analog & Logic ICs

8

Automotive Analog & Logic	144
Q100 Functions and Standard Packages (>10 pins)	144
Q100 Functions and Mini-Logic Packages (≤ 10 pins)	155
Logic	164
Buffers / Inverters	164
Transceivers	171
AND gates	173
NAND gates	174
OR gates	175
NOR gates	176
EXCLUSIVE-OR gates	177
EXCLUSIVE-NOR gates	177
Combination gates	178
Configurable gates	178
Schmitt-triggers	179
Flip-flops	182
Latches / Registered drivers	184
Shift registers	185
Counters / Frequency dividers	186
Decoders and Demultiplexers	187
Digital multiplexers	188
Speciality logic	189
Specialty logic - Multivibrators	189
Voltage translators (level-shifters)	190
Uni-directional	190
Direction controlled	191
Auto direction (Autosense)	192
Application specific	192
Analog Switches and Multiplexers	193
Analog switches	193
Bus switches	194
Multiplexer / Demultiplexer	194
Interface	195
I ² C General Purpose I/O (GPIO)	195
Isolation	196
Transformer drivers	196
Power IC's	197
IC's - Battery booster	197
Power management IC's - Energy harvesting	197
LCD bias	197
Automotive LED Driver	197
Load Switch	198
eFuses	199
Ideal Diodes	199
Low I _q buck converter	200
Wide Vin buck converter	200
Half bridge gate driver	200
PWM controller	201
SR controller	201
Automotive low I _q LDO	201
Automotive 40V tracking LDO	202
USB PD Controller	202
Nomenclatures	203
Translator IC's nomenclature	203

Q100 Functions and Standard Packages (>10 pins)

Logic - Buffer / Inverters

Type number	Description	Features				Package (suffix)									
		V _{CC} (V)	I _O (mA)	t _{pd} (ns)	T _{amb} (°C)	SOT108-1 (D)	SOT402-1 (PW)	SOT762-1 (BQ)	SOT109-1 (D)	SOT403-1 (PW)	SOT163-1 (D)	SOT360-1 (PW)	SOT764-1 (BQ)	SOT362-1 (DGG)	SOT480-1 (DGV)
74AHC04-Q100	Hex inverter	2.0 - 5.5	± 8	3.0	-40 to 125	•	•	•							
74AHC04-Q100	Hex inverter; TTL-enabled	4.5 - 5.5	± 8	3.0	-40 to 125	•	•	•							
74AHC125-Q100	Quad buffer/line driver (3-state)	2.0 - 5.5	± 8	3.0	-40 to 125	•	•	•							
74AHC125-Q100	Quad buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	± 8	3.0	-40 to 125	•	•	•							
74AHC126-Q100	Quad buffer/line driver (3-state)	2.0 - 5.5	± 8	3.3	-40 to 125	•	•	•							
74AHC126-Q100	Quad buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	± 8	3.0	-40 to 125	•	•	•							
74AHC240-Q100	Octal inverter/line driver; TTL-enabled (3-state)	4.5 - 5.5	± 8	3.0	-40 to 125						•	•	•		
74AHC244-Q100	Octal buffer/line driver (3-state)	2.0 - 5.5	± 8	3.5	-40 to 125						•	•	•		
74AHC244-Q100	Octal buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	± 8	3.5	-40 to 125						•	•	•		
74AHC541-Q100	Octal buffer/line driver (3-state)	2.0 - 5.5	± 8	3.5	-40 to 125						•	•	•		
74AHC541-Q100	Octal buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	± 8	3.5	-40 to 125						•	•	•		
74AHC04-Q100	Hex inverter; unbuffered	2.0 - 5.5	± 8	2.4	-40 to 125	•	•	•							
74ALVC125-Q100	Quad buffer/line driver (3-state)	1.65 - 3.6	± 24	1.8	-40 to 85	•	•	•							
74ALVC541-Q100	Octal buffer/line driver (3-state)	1.65 - 3.6	± 24	2.3	-40 to 85						•	•	•		
74HC05-Q100	Hex inverter; open-drain	2.0 - 6.0	5.2	11	-40 to 125	•	•	•							
74HC04-Q100	Hex inverter	2.0 - 6.0	± 5.2	7.0	-40 to 125	•	•	•							
74HCT04-Q100	Hex inverter; TTL-enabled	4.5 - 5.5	± 4.0	8.0	-40 to 125	•	•	•							
74HC125-Q100	Quad buffer/line driver (3-state)	2.0 - 6.0	± 7.8	9.0	-40 to 125	•	•								
74HCT125-Q100	Quad buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	± 6	12	-40 to 125	•	•								
74HC126-Q100	Quad buffer/line driver (3-state)	2.0 - 6.0	± 7.8	9.0	-40 to 125	•	•								
74HCT126-Q100	Quad buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	± 6	11	-40 to 125	•	•								
74HC240-Q100	Octal inverter/line driver (3-state)	2.0 - 6.0	± 7.8	9.0	-40 to 125						•	•	•		
74HCT240-Q100	Octal inverter/line driver; TTL-enabled (3-state)	4.5 - 5.5	± 6	9.0	-40 to 125						•	•	•		
74HC244-Q100	Octal buffer/line driver (3-state)	2.0 - 6.0	± 7.8	9.0	-40 to 125						•	•	•		
74HCT244-Q100	Octal buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	± 6	11	-40 to 125						•	•	•		
74HC365-Q100	Hex buffer/line driver (3-state)	2.0 - 6.0	± 7.8	9.0	-40 to 125				•	•					
74HCT365-Q100	Hex buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	± 6	11	-40 to 125				•	•					
74HC366-Q100	Hex inverter/line driver (3-state)	2.0 - 6.0	± 7.8	10	-40 to 125				•	•					
74HCT366-Q100	Hex inverter/line driver; TTL-enabled (3-state)	4.5 - 5.5	± 6	11	-40 to 125				•	•					
74HC540-Q100	Octal inverter/line driver (3-state)	2.0 - 6.0	± 7.8	9.0	-40 to 125						•				
74HCT540-Q100	Octal inverter/line driver; TTL-enabled (3-state)	4.5 - 5.5	± 6	11	-40 to 125						•				
74HC541-Q100	Octal buffer/line driver (3-state)	2.0 - 6.0	± 7.8	10	-40 to 125						•	•			

Logic - Buffer / Inverters

Type number	Description	Features				Package (suffix)									
		V _{cc} (V)	I _o (mA)	t _{pd} (ns)	T _{amb} (°C)	SOT108-1 (D)	SOT402-1 (PW)	SOT762-1 (BQ)	SOT109-1 (D)	SOT403-1 (PW)	SOT163-1 (D)	SOT360-1 (PW)	SOT764-1 (BQ)	SOT362-1 (DGG)	SOT480-1 (DGV)
74HCT541-Q100	Octal buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	± 6	12	-40 to 125						•	•			
74HCU04-Q100	Hex inverter; unbuffered	2.0 - 6.0	± 5.2	5.0	-40 to 125	•	•	•							
74LV244-Q100	Octal buffer/line driver (3-state)	1.0 - 5.5	± 16	8.0	-40 to 125						•	•			
74LVC04A-Q100	Hex inverter	1.65 - 5.5	± 24	2.0	-40 to 125	•	•	•							
74LVC06A-Q100	Hex inverter; open-drain	1.65 - 5.5	32	2.2	-40 to 125	•	•	•							
74LVC07A-Q100	Hex buffer; open-drain	1.65 - 5.5	32	2.2	-40 to 125	•	•	•							
74LVC125A-Q100	Quad buffer/line driver (3-state)	1.2 - 3.6	± 24	2.4	-40 to 125	•	•	•							
74LVC126A-Q100	Quad buffer/line driver (3-state)	1.2 - 3.6	± 24	2.4	-40 to 125	•	•	•							
74LVC541A-Q100	Octal buffer/line driver (3-state)	1.2 - 3.6	± 24	3.3	-40 to 125						•	•	•		
74LVC16240A-Q100	16-bit inverter/line driver (3-state)	1.2 - 3.6	± 24	2.7	-40 to 125									•	
74LVC244A-Q100	Octal buffer/line driver (3-state)	1.2 - 3.6	± 24	2.8	-40 to 125						•	•	•		
74LVCH244A-Q100	Octal buffer/line driver with bus hold (3-state)	1.2 - 3.6	± 24	2.8	-40 to 125						•	•	•		
74LVC16244A-Q100	16-bit buffer/line driver (3-state)	1.2 - 3.6	± 24	3.0	-40 to 125									•	•
74LVCH16244A-Q100	16-bit buffer/line driver with bus hold (3-state)	1.2 - 3.6	± 24	3.0	-40 to 125									•	•
74LCU04A-Q100	Hex inverter; unbuffered	1.2 - 3.6	± 24	2.0	-40 to 125	•	•								
74LVT04-Q100	Hex inverter	2.7 - 3.6	-20 / +32	2.6	-40 to 85	•	•								
74LVT244A-Q100	Octal buffer/line driver with bus hold (3-state)	2.7 - 3.6	-32 / +64	2.6	-40 to 85						•	•	•		
74LVTH244A-Q100	Octal buffer/line driver with bus hold (3-state)	2.7 - 3.6	-32 / +64	2.6	-40 to 85						•	•	•		
74VHC126-Q100	Quad buffer/line driver (3-state)	2.0 - 5.5	± 8	3.3	-40 to 125	•	•	•							
74VHCT126-Q100	Quad buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	± 8	3.0	-40 to 125	•	•	•							
74VHC541-Q100	Octal buffer/line driver (3-state)	2.0 - 5.5	± 8	3.5	-40 to 125						•	•	•		
74VHCT541-Q100	Octal buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	± 8	3.5	-40 to 125						•	•	•		
HEF4049B-Q100	Hex inverter/line driver	3.0 - 15.0	-3 / +20	20	-40 to 85				•						
HEF4050B-Q100	Hex buffer/line driver	3.0 - 15.0	-3 / +20	40	-40 to 85				•						
HEF4069UB-Q100	Hex inverter; unbuffered	3.0 - 15.0	± 3.4	15	-40 to 85	•	•								

Logic - Transceivers

Type number	Description	Features				Package (suffix)				
		V_{CC} (V)	I_O (mA)	t_{pd} (ns)	T_{amb} (°C)	SOT163-1 (D)	SOT360-1 (PW)	SOT764-1 (BQ)	SOT362-1 (DGG)	SOT480-1 (DGV)
74AHC245-Q100	Octal transceiver (3-state)	2.0 - 5.5	± 8	3.5	-40 to 125	•	•	•		
74AHCT245-Q100	Octal transceiver; TTL-enabled (3-state)	4.5 - 5.5	± 8	5.0	-40 to 125	•	•	•		
74HC245-Q100	Octal transceiver (3-state)	2.0 - 6.0	± 7.8	7.0	-40 to 125	•	•	•		
74HCT245-Q100	Octal transceiver; TTL-enabled (3-state)	4.5 - 5.5	± 6	10	-40 to 125	•	•	•		
74LVC245A-Q100	Octal transceiver (3-state)	1.2 - 3.6	± 24	2.9	-40 to 125	•	•	•		
74LVCH245A-Q100	Octal transceiver with bus hold (3-state)	1.2 - 3.6	± 24	2.9	-40 to 125	•	•	•		
74LVC16245A-Q100	16-bit bus transceiver with diRection pin; 5 V tolerant (3-state)	1.2 - 3.6	± 24	5.2	-40 to 125				•	•
74LVC162245A-Q100	16-bit transceiver with 30 Ω termination resistors (3-state)	1.2 - 3.6	± 12	3.3	-40 to 125				•	•
74LVCH16245A-Q100	16-bit bus transceiver with bus hold with diRection pin; 5 V tolerant (3-state)	1.2 - 3.6	± 24	5.2	-40 to 125				•	•

Logic - Gates

Type number	Description	Features				Package (suffix)			
		V _{cc} (V)	I _o (mA)	t _{pd} (ns)	T _{amb} (°C)	SOT108-1 (D)	SOT402-1 (PW)	SOT762-1 (BQ)	SOT765-1 (DC)
74AHC00-Q100	Quad 2-input NAND gate	2.0 - 5.5	± 8	3.2	-40 to 125	•	•	•	
74AHC00-Q100	Quad 2-input NAND gate; TTL-enabled	4.5 - 5.5	± 8	3.3	-40 to 125	•	•	•	
74AHC02-Q100	Quad 2-input NOR gate	2.0 - 5.5	± 8	2.9	-40 to 125	•	•	•	
74AHC02-Q100	Quad 2-input NOR gate; TTL-enabled	4.5 - 5.5	± 8	3.8	-40 to 125	•	•	•	
74AHC08-Q100	Quad 2-input AND gate	2.0 - 5.5	± 8	3.5	-40 to 125	•	•	•	
74AHC08-Q100	Quad 2-input AND gate; TTL-enabled	4.5 - 5.5	± 8	5.0	-40 to 125	•	•	•	
74AHC30-Q100	8-input NAND gate	2.0 - 5.5	± 8	3.6	-40 to 125	•	•	•	
74AHC30-Q100	8-input NAND gate; TTL-enabled	4.5 - 5.5	± 8	3.3	-40 to 125	•	•	•	
74AHC32-Q100	Quad 2-input OR gate	2.0 - 5.5	± 8	3.5	-40 to 125	•	•	•	
74AHC32-Q100	Quad 2-input OR gate; TTL-enabled	4.5 - 5.5	± 8	5.0	-40 to 125	•	•	•	
74AHC86-Q100	Quad 2-input EXCLUSIVE-OR gate	2.0 - 5.5	± 8	3.4	-40 to 125	•	•	•	
74AHC86-Q100	Quad 2-input EXCLUSIVE-OR gate; TTL-enabled	4.5 - 5.5	± 8	3.4	-40 to 125	•	•	•	
74ALVC00-Q100	Quad 2-input NAND gate	1.65 - 3.6	± 24	2.1	-40 to 85	•	•	•	
74ALVC32-Q100	Quad 2-input OR gate	1.65 - 3.6	± 24	2.0	-40 to 125	•	•	•	
74AUP2G00-Q100	Dual 2-input NAND gate	2.0 - 5.5	± 8	3.2	-40 to 125				•
74HC00-Q100	Quad 2-input NAND gate	2.0 - 6.0	± 5.2	7.0	-40 to 125	•	•	•	
74HC00-Q100	Quad 2-input NAND gate; TTL-enabled	4.5 - 5.5	± 4	10	-40 to 125	•	•	•	
74HC02-Q100	Quad 2-input NOR gate	2.0 - 6.0	± 5.2	7.0	-40 to 125	•	•	•	
74HC02-Q100	Quad 2-input NOR gate; TTL-enabled	4.5 - 5.5	± 4	9.0	-40 to 125	•	•	•	
74HC03-Q100	Quad 2-input NAND gate; open-drain	2.0 - 6.0	5.2	8.0	-40 to 125	•	•		
74HC03-Q100	Quad 2-input NAND gate; open-drain; TTL-enabled	4.5 - 5.5	± 4	10	-40 to 125	•	•		
74HC08-Q100	Quad 2-input AND gate	2.0 - 6.0	± 5.2	7.0	-40 to 125	•	•	•	
74HC08-Q100	Quad 2-input AND gate; TTL-enabled	4.5 - 5.5	± 4	11	-40 to 125	•	•	•	
74HC10-Q100	Triple 3-input NAND gate	2.0 - 6.0	± 5.2	9.0	-40 to 125	•	•		
74HC10-Q100	Triple 3-input NAND gate; TTL-enabled	4.5 - 5.5	± 4	11	-40 to 125	•	•		

Logic - Schmitt-trigger IC's

Type number	Description	Features				Package (suffix)				
		V_{CC} (V)	I_O (mA)	t_{pd} (ns)	T_{amb} (°C)	SOT108-1 (D)	SOT402-1 (PW)	SOT762-1 (BQ)	SOT163-1 (D)	SOT360-1 (PW)
74AHC14-Q100	Hex inverter Schmitt-trigger	2.0 - 5.5	± 8	3.2	-40 to 125	•	•	•		
74AHCT14-Q100	Hex inverter Schmitt-trigger; TTL-enabled	4.5 - 5.5	± 8	4.0	-40 to 125	•	•	•		
74AHC132-Q100	Quad 2-input NAND gate Schmitt-trigger	2.0 - 5.5	± 8	3.3	-40 to 125	•	•	•		
74AHCT132-Q100	Quad 2-input NAND gate Schmitt-trigger; TTL-enabled	4.5 - 5.5	± 8	3.5	-40 to 125	•	•	•		
74HC7014-Q100	Hex buffer precision Schmitt-trigger	2.0 - 6.0	± 5.2	27	-40 to 125	•				
74HC14-Q100	Hex inverter Schmitt-trigger	2.0 - 6.0	± 5.2	12	-40 to 125	•	•	•		
74HCT14-Q100	Hex inverter Schmitt-trigger; TTL-enabled	4.5 - 5.5	± 4	17	-40 to 125	•	•	•		
74HC132-Q100	Quad 2-input NAND gate Schmitt-trigger	2.0 - 6.0	± 5.2	11	-40 to 125	•	•	•		
74HCT132-Q100	Quad 2-input NAND gate Schmitt-trigger; TTL-enabled	4.5 - 5.5	± 4	17	-40 to 125	•	•			
74HC7541-Q100	Octal buffer/line driver Schmitt-trigger (3-State)	2.0 - 6.0	± 7.8	11	-40 to 125				•	•
74HCT7541-Q100	Octal buffer/line driver Schmitt-trigger; TTL-enabled (3-State)	4.5 - 5.5	± 6	16	-40 to 125				•	•
74LV132-Q100	Quad 2-input NAND gate Schmitt-trigger	1.0 - 5.5	± 12	10	-40 to 125	•	•	•		
74LV7032A-Q100	Quad 2-input OR gate Schmitt-trigger	2.0 - 5.5	± 12	4.3	-40 to 125		•			
74LVC14A-Q100	Hex inverter Schmitt-trigger	1.2 - 3.6	± 24	3.2	-40 to 125	•	•	•		
74LVC132A-Q100	Quad 2-input NAND gate Schmitt-trigger	1.2 - 3.6	± 24	3.4	-40 to 125	•	•	•		
HEF4093B-Q100	Quad 2-input NAND gate Schmitt-trigger	3.0 - 15	± 24	30	-40 to 125	•				
HEF40106B-Q100	Hex inverter Schmitt-trigger	4.5 - 15.5	± 2.4	30	-40 to 85	•	•			

Logic - Flip-flops

Type number	Description	Features				Package (suffix)									
		V _{cc} (V)	I _o (mA)	t _p d (ns)	T _{amb} (°C)	SOT108-1 (D)	SOT402-1 (PW)	SOT762-1 (BQ)	SOT109-1 (D)	SOT403-1 (PW)	SOT163-1 (D)	SOT360-1 (PW)	SOT764-1 (BQ)	SOT815-1 (BQ)	SOT362-1 (DGG)
74AHC74-Q100	Dual D-type flip-flop with set and reset; positive-edge trigger	2.0 - 5.5	± 8	3.7	-40 to 125	•	•	•							
74AHCT74-Q100	Dual D-type flip-flop with set and reset; positive-edge trigger; TTL-enabled	4.5 - 5.5	± 8	3.3	-40 to 125	•	•	•							
74AHC273-Q100	Octal D-type flip-flop with reset; positive-edge trigger	2.0 - 5.5	± 8	4.2	-40 to 125						•	•	•		
74AHCT273-Q100	Octal D-type flip-flop with reset; positive-edge trigger; TTL-enabled	4.5 - 5.5	± 8	4.0	-40 to 125						•	•	•		
74AHC374-Q100	Octal D-type flip-flop; positive-edge trigger	2.0 - 5.5	± 8	4.4	-40 to 125						•	•			
74AHCT374-Q100	Octal D-type flip-flop; positive-edge trigger (3-state); TTL-enabled (3-state)	4.5 - 5.5	± 8	4.3	-40 to 125						•	•			
74HC73-Q100	Dual JK flip-flop with reset; negative-edge trigger	2.0 - 6.0	± 5.2	16	-40 to 125	•									
74HC74-Q100	Dual D-type flip-flop with set and reset; positive-edge trigger	2.0 - 6.0	± 5.2	14	-40 to 125	•	•	•							
74HCT74-Q100	Dual D-type flip-flop with set and reset; positive-edge trigger; TTL-enabled	4.5 - 5.5	± 4	15	-40 to 125	•	•	•							
74HC107-Q100	Dual J-K flip-flop with reset; negative-edge trigger	2.0 - 6.0	± 5.2	16	-40 to 125	•	•								
74HCT107-Q100	Dual J-K flip-flop with reset; negative-edge trigger; TTL-enabled	4.5 - 5.5	± 4	16	-40 to 125	•									
74HC109-Q100	Dual J-K flip-flop with set and reset; positive-edge trigger	2.0 - 6.0	± 5.2	15	-40 to 125				•						
74HCT109-Q100	Dual J-K flip-flop with set and reset; positive-edge trigger; TTL-enabled	4.5 - 5.5	± 4	17	-40 to 125				•	•					
74HC174-Q100	Hex D-type flip-flop with reset; positive-edge trigger	2.0 - 6.0	± 5.2	17	-40 to 125				•	•					

Logic - Flip-flops

Type number	Description	Features				Package (suffix)									
		V _{CC} (V)	I _O (mA)	t _{pd} (ns)	T _{amb} (°C)	SOT108-1 (D)	SOT402-1 (PW)	SOT762-1 (BQ)	SOT109-1 (D)	SOT403-1 (PW)	SOT163-1 (D)	SOT360-1 (PW)	SOT764-1 (BQ)	SOT815-1 (BQ)	SOT362-1 (DGG)
74HCT174-Q100	Hex D-type flip-flop with reset; positive-edge trigger; TTL-enabled	4.5 - 5.5	± 4	18	-40 to 125				•	•					
74HC175-Q100	Quad D-type flip-flop with reset; positive-edge trigger	2.0 - 6.0	± 5.2	17	-40 to 125				•	•					
74HCT175-Q100	Quad D-type flip-flop with reset; positive-edge trigger; TTL-enabled	4.5 - 5.5	± 4	16	-40 to 125				•	•					
74HC273-Q100	Octal D-type flip-flop with reset; positive-edge trigger	2.0 - 6.0	± 5.2	15	-40 to 125						•	•	•		
74HCT273-Q100	Octal D-type flip-flop with reset; positive-edge trigger; TTL-enabled	4.5 - 5.5	± 4	15	-40 to 125						•	•	•		
74HC377-Q100	Octal D-type flip-flop with data enable; positive-edge trigger	2.0 - 6.0	± 7.8	13	-40 to 125						•	•			
74HCT377-Q100	Octal D-type flip-flop with data enable; positive-edge trigger; TTL-enabled	4.5 - 5.5	± 6	14	-40 to 125						•	•			
74HC574-Q100	Octal D-type flip-flop; positive-edge trigger (3-state)	2.0 - 6.0	± 7.8	14	-40 to 125						•	•	•		
74HCT574-Q100	"Octal D-type flip-flop; positive-edge trigger; TTL-enabled (3-state)"	4.5 - 5.5	± 6	15	-40 to 125						•	•			
74LV74-Q100	Dual D-type flip-flop with set and reset; positive-edge trigger	1.0 - 5.5	± 12	11	-40 to 125	•	•								
74LVC74A-Q100	Dual D-type flip-flop with set and reset; positive-edge trigger	1.2 - 3.6	± 24	2.5	-40 to 125	•	•	•							
74LVC273-Q100	Octal D-type flip-flop with reset; positive-edge trigger	1.2 - 3.6	± 24	6	-40 to 125						•	•	•		
74LVC374A-Q100	Octal D-type flip-flop; positive-edge trigger (3-state)	1.2 - 3.6	± 24	2.7	-40 to 125						•	•	•		
74LVC573A-Q100	Octal D-type transparent latch (3-state)	1.2 - 3.6	± 24	3.4	-40 to 125						•	•	•		
74LVC16374A-Q100	16-bit D-type flip-flop; positive-edge trigger (3-state)	1.2 - 3.6	± 24	3.8	-40 to 125										•
74LVCH16374A-Q100	16-bit D-type flip-flop with bus hold; positive-edge trigger (3-state)	1.2 - 3.6	± 24	3.8	-40 to 125										•
HEF4013B-Q100	Dual D-type flip-flop with set and reset; positive-edge trigger	3.0 - 15	± 2.4	30	-40 to 85	•	•								
HEF4027B-Q100	Dual J-K flip-flop	3.0 - 15	± 2.4	30	-40 to 85				•						

Logic - Latches / Registered drivers

Type number	Description	Features				Package (suffix)						
		V _{CC} (V)	I _O (mA)	t _{pd} (ns)	T _{amb} (°C)	SOT109-1 (D)	SOT403-1 (PW)	SOT763-1 (BQ)	SOT163-1 (D)	SOT360-1 (PW)	SOT764-1 (BQ)	SOT362-1 (DGG)
74AHC573-Q100	Octal D-type transparent latch (3-state)	2.0 - 5.5	± 8	4.2	-40 to 125				•	•	•	
74AHCT573-Q100	Octal D-type transparent latch; TTL-enabled (3-state)	4.5 - 5.5	± 8	3.9	-40 to 125				•	•	•	
74HC259-Q100	8 bit addressable latch	2.0 - 6.0	± 5.2	18	-40 to 125	•	•	•				
74HCT259-Q100	8 bit addressable latch; TTL-enabled	4.5 - 5.5	± 4	20	-40 to 125	•	•	•				
74HC373-Q100	Octal D-type transparent latch (3-state)	2.0 - 6.0	± 7.8	12	-40 to 125				•	•	•	
74HCT373-Q100	Octal D-type transparent latch; TTL-enabled (3-state)	4.5 - 5.5	± 6	14	-40 to 125				•	•	•	
74HC573-Q100	Octal D-type transparent latch (3-state)	2.0 - 6.0	± 7.8	14	-40 to 125				•	•	•	
74HCT573-Q100	Octal D-type transparent latch; TTL-enabled (3-state)	4.5 - 5.5	± 6	17	-40 to 125				•	•	•	
74LVC373A-Q100	Octal D-type transparent latch (3-state)	1.2 - 3.6	± 24	3.0	-40 to 125				•	•	•	
74LVC16373A-Q100	16-bit D-type transparent latch (3-state)	1.2 - 3.6	± 24	2.4	-40 to 125							•
74LVCH16373A-Q100	16-bit D-type transparent latch with bushold (3-state)	1.2 - 3.6	± 24	2.4	-40 to 125							•
HEF4043B-Q100	Quad R/S latch with set and reset (3-state)	3.0 - 15	± 2.4	25	-40 to 85	•						

Logic - Shift Registers

Type number	Description	Features				Package (suffix)							
		V _{CC} (V)	I _O (mA)	t _{pd} (ns)	T _{amb} (°C)	SOT108-1 (D)	SOT402-1 (PW)	SOT762-1 (BQ)	SOT109-1 (D)	SOT403-1 (PW)	SOT763-1 (BQ)	SOT163-1 (D)	SOT360-1 (PW)
74AHC164-Q100	8-bit serial-in/parallel-out shift register	2.0 - 5.5	± 8	4.5	-40 to 125	•	•	•					
74AHC164-Q100	8-bit serial-in/parallel-out shift register; TTL-enabled	4.5 - 5.5	± 8	3.4	-40 to 125	•	•	•					
74AHC594-Q100	8-bit serial-in/parallel-out shift register with output register	2.0 - 5.5	± 8	4.1	-40 to 125				•	•	•		
74AHC594-Q100	8-bit serial-in/parallel-out shift register with output register; TTL-enabled	4.5 - 5.5	± 8	3.8	-40 to 125				•	•	•		
74AHC595-Q100	8-bit serial-in/parallel-out shift register with output register (3-state)	2.0 - 5.5	± 8	4.0	-40 to 125				•	•	•		
74AHC595-Q100	8-bit serial-in/parallel-out shift register with output storage; TTL-enabled (3-state)	4.5 - 5.5	± 8	3.8	-40 to 125				•	•	•		
74HC164-Q100	8-bit serial-in/parallel-out shift register	2.0 - 6.0	± 5.2	12	-40 to 125	•	•	•					
74HCT164-Q100	8-bit serial-in/parallel-out shift register; TTL-enabled	4.5 - 5.5	± 4	12	-40 to 125	•	•	•					
74HC165-Q100	8-bit parallel or serial-in/serial-out shift register	2.0 - 6.0	± 5.2	16	-40 to 125				•	•	•		
74HCT165-Q100	8-bit parallel or serial-in/serial-out shift register; TTL-enabled	4.5 - 5.5	± 4	14	-40 to 125				•	•	•		
74HC166-Q100	8-bit parallel or serial-in/serial-out shift register	2.0 - 6.0	± 5.2	15	-40 to 125				•	•			
74HCT166-Q100	8-bit parallel or serial-in/serial-out shift register; TTL-enabled	4.5 - 5.5	± 4	23	-40 to 125				•				
74HC299-Q100	8-bit universal shift register; 3-state	2.0 - 6.0	± 7.8	15	-40 to 125							•	
74HC594-Q100	8-bit serial-in/parallel-out shift register with output storage register	2.0 - 6.0	± 7.8	14	-40 to 125	•	•	•					
74HCT594-Q100	8-bit serial-in/parallel-out shift register with output storage register; TTL-enabled	4.5 - 5.5	± 6	15	-40 to 125				•				
74HC595-Q100	8-bit serial-in/parallel-out shift register with output storage register (3-state)	2.0 - 6.0	± 7.8	16	-40 to 125				•	•	•		
74HCT595-Q100	8-bit serial-in/parallel-out shift register with output storage register; TTL-enabled (3-state)	4.5 - 5.5	± 6	25	-40 to 125				•	•	•		
74HC597-Q100	8-bit parallel or serial-in/parallel-out shift register with parallel input register	2.0 - 6.0	± 5.2	16	-40 to 125				•	•			
74HCT597-Q100	8-bit parallel or serial-in/parallel-out shift register with parallel input register; TTL-enabled	4.5 - 5.5	± 4	20	-40 to 125				•				
74HC4094-Q100	8-bit serial-in/serial or parallel-out shift register with output register (3-state)	2.0 - 6.0	± 5.2	15	-40 to 125				•	•			
74HCT4094-Q100	8-bit serial-in/serial or parallel-out shift register with output register; TTL-enabled (3-state)	4.5 - 5.5	± 4	19	-40 to 125				•				
74LV164-Q100	8-bit serial-in/parallel-out shift register	1.0 - 5.5	± 12	12	-40 to 125	•	•	•					
74LV165-Q100	8-bit parallel or serial-in/serial-out shift register	1.0 - 5.5	± 12	18	-40 to 125				•	•			
74LV165A-Q100	8-bit parallel or serial-in/serial-out shift register	1.0 - 5.5	± 12	7.5	-40 to 125				•	•			
74LVC594A-Q100	8-bit serial-in/parallel-out shift register with output storage register	1.2 - 5.5	± 24	3.1	-40 to 125				•	•	•		
74VHC595-Q100	8-bit serial-in/parallel-out shift register with output storage register (3-state)	2.0 - 5.5	± 8	4.0	-40 to 125				•	•	•		
74VHCT595-Q100	8-bit serial-in/parallel-out shift register with output storage register; TTL-enabled (3-state)	4.5 - 5.5	± 8	3.8	-40 to 125				•	•	•		
HEF4014B-Q100	8-bit shift register with synchronous parallel enable	3.0 - 15	± 2.4	40	-40 to 85				•				
HEF4021B-Q100	8-bit shift register with asynchronous parallel load	3.0 - 15	± 2.4	40	-40 to 85				•	•			
HEF4094B-Q100	8-bit serial-in/serial or parallel-out shift register with output register (3-state)	3.0 - 15	± 2.4	50	-40 to 85				•	•			
HEF4794B-Q100	8-bit serial-in/serial or parallel-out shift register with output register LED driver (3-state)	3.0 - 15	-20	45	-40 to 85				•				
HEF4894B-Q100	12-bit serial-in/serial or parallel-out shift register with output register LED driver (3-state)	3.0 - 15	-20	45	-40 to 85							•	•

Logic - Counter / Frequency dividers

Type number	Description	Features				Package (suffix)					
		V _{cc} (V)	I _o (mA)	t _{pd} (ns)	T _{amb} (°C)	SOT108-1 (D)	SOT402-1 (PW)	SOT762-1 (BQ)	SOT109-1 (D)	SOT403-1 (PW)	SOT763-1 (BQ)
74HC161-Q100	Presettable synchronous 4-bit binary counter; asynchronous reset	2.0 - 6.0	± 5.2	19	-40 to 125				•	•	
74HC193-Q100	Presettable synchronous 4-bit binary up/down counter	2.0 - 6.0	± 5.2	20	-40 to 125				•	•	
74HCT193-Q100	Presettable synchronous 4-bit binary up/down counter; TTL-enabled	4.5 - 5.5	± 4.0	20	-40 to 125				•	•	
74HC393-Q100	Dual 4-bit binary ripple counter	2.0 - 6.0	± 5.2	12	-40 to 125	•	•	•			
74HCT393-Q100	Dual 4-bit binary ripple counter; TTL-enabled	4.5 - 5.5	± 4.0	20	-40 to 125	•	•	•			
74HC4017-Q100	Johnson decade counter with 10 decoded outputs	2.0 - 6.0	± 5.2	18	-40 to 125				•	•	•
74HCT4017-Q100	Johnson decade counter with 10 decoded outputs; TTL-enabled	4.5 - 5.5	± 4.0	21	-40 to 125				•		•
74HC4020-Q100	14-stage binary ripple counter	2.0 - 6.0	± 5.2	11	-40 to 125				•	•	•
74HCT4020-Q100	14-stage binary ripple counter; TTL-enabled	4.5 - 5.5	± 4.0	15	-40 to 125				•	•	•
74HC4024-Q100	7-stage binary ripple counter	2.0 - 6.0	± 5.2	14	-40 to 125	•					
74HC4040-Q100	12-stage binary ripple counter	2.0 - 6.0	± 5.2	14	-40 to 125				•	•	•
74HCT4040-Q100	12-stage binary ripple counter; TTL-enabled	4.5 - 5.5	± 4.0	16	-40 to 125				•	•	•
74HC4060-Q100	14-stage binary ripple counter with oscillator	2.0 - 6.0	± 5.2	31	-40 to 125				•	•	•
74HCT4060-Q100	14-stage binary ripple counter with oscillator; TTL-enabled	4.5 - 5.5	± 4.0	31	-40 to 125				•		•
74HC4520-Q100	Dual 4-bit synchronous binary counter	2.0 - 6.0	± 5.2	24	-40 to 125				•	•	
74HCT4520-Q100	Dual 4-bit synchronous binary counter; TTL-enabled	4.5 - 5.5	± 4.0	24	-40 to 125				•		
74LV393-Q100	Dual 4-bit binary ripple counter	1.0 - 3.6	± 6	12	-40 to 125	•	•				
74LV4060-Q100	14-stage binary ripple counter with oscillator	1.0 - 5.5	± 6	29	-40 to 125				•	•	
HEF4017B-Q100	5-stage Johnson decade counter	3.0 - 15	± 2.4	40	-40 to 85				•		
HEF4020B-Q100	14-stage binary ripple counter	3.0 - 15	± 2.4	30	-40 to 85				•		
HEF4040B-Q100	12-stage binary ripple counter	3.0 - 15	± 2.4	35	-40 to 85				•		
HEF4060B-Q100	14-stage binary ripple counter with oscillator	3.0 - 15	± 2.4	50	-40 to 85				•		
HEF4520B-Q100	Dual 4-bit synchronous binary counter	3.0 - 15	± 2.4	15	-40 to 85				•		
HEF4541B-Q100	Programmable timer	3.0 - 15	- 4/ + 2.7	38	-40 to 85	•					

Logic - Decoders / Demultiplexers

Type number	Description	Features				Package (suffix)			
		V_{CC} (V)	I_O (mA)	t_{pd} (ns)	T_{amb} (°C)	SOT109-1 (D)	SOT403-1 (PW)	SOT763-1 (BQ)	SOT355-1 (PW)
74AHC138-Q100	3-to-8 line decoder/demultiplexer; inverting	2.0 - 5.5	± 8	4.4	-40 to 125	•	•	•	
74AHCT138-Q100	3-to-8 line decoder/demultiplexer; inverting; TTL-enabled	4.5 - 5.5	± 8	4.4	-40 to 125	•	•	•	
74AHC139-Q100	Dual 2-to-4 line decoder/demultiplexer	2.0 - 5.5	± 8	3.9	-40 to 125	•	•		
74AHCT139-Q100	Dual 2-to-4 line decoder/demultiplexer; TTL-enabled	4.5 - 5.5	± 8	3.6	-40 to 125	•	•		
74HC237-Q100	3-to-8 decoder/demultiplexer with address latches	2.0 - 6.0	± 5.2	18	-40 to 125	•			
74HC138-Q100	3-to-8 line decoder/demultiplexer; inverting	2.0 - 6.0	± 5.2	12	-40 to 125	•	•	•	
74HCT138-Q100	3-to-8 line decoder/demultiplexer; inverting; TTL-enabled	4.5 - 5.5	± 4	19	-40 to 125	•	•	•	
74HC139-Q100	Dual 2-to-4 line decoder/demultiplexer	2.0 - 6.0	± 5.2	14	-40 to 125	•	•		
74HCT139-Q100	Dual 2-to-4 line decoder/demultiplexer; TTL-enabled	4.5 - 5.5	± 4	16	-40 to 125	•	•		
74HC238-Q100	3-to-8 decoder/demultiplexer	2.0 - 6.0	± 5.2	14	-40 to 125	•	•	•	
74HCT238-Q100	3-to-8 decoder/demultiplexer; TTL-enabled	4.5 - 5.5	± 4	18	-40 to 125	•	•	•	
74HC4514-Q100	4-to-16 decoder/demultiplexer with address latches	2.0 - 6.0	± 5.2	27	-40 to 125				•
74LVC138A-Q100	3-to-8 line decoder/demultiplexer; inverting	1.2 - 3.6	± 24	2.7	-40 to 125	•	•	•	
HEF4555B-Q100	Dual 1-to-4 line decoder/demultiplexer	3.0 - 15	± 2.4	30	-40 to 85	•			

Logic - Digital multiplexers

Type number	Description	Features				Package (suffix)		
		V_{CC} (V)	I_O (mA)	t_{pd} (ns)	T_{amb} (°C)	SOT109-1 (D)	SOT403-1 (PW)	SOT763-1 (BQ)
74AHC157-Q100	Quad 2-input multiplexer	2.0 - 5.5	± 8	3.2	-40 to 125	•	•	•
74AHCT157-Q100	Quad 2-input multiplexer; TTL-enabled	4.5 - 5.5	± 8	3.2	-40 to 125	•	•	•
74AHC257-Q100	Quad 2-input multiplexer (3-State)	2.0 - 5.5	± 8	2.9	-40 to 125	•	•	
74AHCT257-Q100	Quad 2-input multiplexer; TTL-enabled (3-State)	4.5 - 5.5	± 8	3.7	-40 to 125	•	•	
74HC151-Q100	8-input multiplexer	2.0 - 6.0	± 5.2	17	-40 to 125	•	•	
74HCT151-Q100	8-input multiplexer; TTL-enabled	4.5 - 5.5	± 4	19	-40 to 125	•	•	
74HC153-Q100	Dual 4-input multiplexer	2.0 - 6.0	± 5.2	17	-40 to 125	•	•	
74HCT153-Q100	Dual 4-input multiplexer; TTL-enabled	4.5 - 5.5	± 4	19	-40 to 125	•	•	
74HC157-Q100	Quad 2-input multiplexer	2.0 - 6.0	± 5.2	11	-40 to 125	•	•	•
74HCT157-Q100	Quad 2-input multiplexer; TTL-enabled	4.5 - 5.5	± 4	13	-40 to 125	•	•	•
74HC251-Q100	8-input multiplexer (3-State)	2.0 - 6.0	± 5.2	18	-40 to 125	•	•	
74HCT251-Q100	8-input multiplexer; TTL-enabled (3-State)	4.5 - 5.5	± 4	22	-40 to 125	•	•	
74HC253-Q100	Dual 4-input multiplexer (3-State)	2.0 - 6.0	± 7.8	17	-40 to 125	•		
74HCT253-Q100	Dual 4-input multiplexer; TTL-enabled (3-State)	4.5 - 5.5	± 6	17	-40 to 125	•		
74HC257-Q100	Quad 2-input multiplexer (3-State)	2.0 - 6.0	± 7.8	11	-40 to 125	•	•	
74HCT257-Q100	Quad 2-input multiplexer; TTL-enabled (3-State)	4.5 - 5.5	± 6	13	-40 to 125	•	•	
74LVC157A-Q100	Quad 2-input multiplexer	1.2 - 3.6	± 24	2.5	-40 to 125	•	•	•

Logic - Specialty logic

Type number	Description	Features				Package (suffix)		
		V _{CC} (V)	I _O (mA)	t _{pd} (ns)	T _{amb} (°C)	SOT109-1 (D)	SOT403-1 (PW)	SOT763-1 (BQ)
74AHC123A-Q100	Dual retriggerable monostable multivibrator with reset	2.0 - 5.5	± 8	5.1	-40 to 125	•	•	•
74AHC123A-Q100	Dual retriggerable monostable multivibrator with reset; TTL-enabled	4.5 - 5.5	± 8	5.0	-40 to 125	•	•	•
74HC123-Q100	Dual retriggerable monostable multivibrator with reset	2.0 - 6.0	± 7.8	9.0	-40 to 125	•	•	•
74HCT123-Q100	Dual retriggerable monostable multivibrator with reset; TTL-enabled	4.5 - 5.5	± 4	26	-40 to 125	•	•	
74HC4538-Q100	Dual retriggerable precision monostable multivibrator	2.0 - 6.0	± 5.2	27	-40 to 125	•	•	
74HCT4538-Q100	Dual retriggerable precision monostable multivibrator; TTL-enabled	4.5 - 5.5	± 4	30	-40 to 125	•	•	
HEF4047B-Q100	Retriggerable astable multivibrator	3.0 - 15	± 2.4	50	-40 to 85	•		
HEF4528B-Q100	Dual retriggerable monostable multivibrator with reset	3.0 - 15	± 2.4	40	-40 to 85	•		
HEF4538B-Q100	Dual retriggerable precision monostable multivibrator	3.0 - 15	± 2.4	60	-40 to 85	•		

Voltage translators (Level-shifters)

Type number	Description	Features				Package (suffix)												
		V _{CC(A)} (V)	V _{CC(B)} (V)	I _O (mA)	T _{amb} (°C)	SOT1174-1 (GU12)	SOT1161-1 (GU)	SOT109-1 (D)	SOT402-1 (PW)	SOT403-1 (PW)	SOT360-1 (PW)	SOT355-1 (PW)	SOT762-1 (BQ)	SOT763-1 (BQ)	SOT764-1 (BQ)	SOT815-1 (BQ)	SOT362-1 (DGG)	SOT480-1 (DCV)
74ALVC164245-Q100	16-bit dual-supply voltage level translating transceiver (3-state)	1.5 - 5.5	1.5 - 3.6	± 24	-40 to 125												•	
74AVC4T245-Q100	4-bit dual-supply voltage level translating transceiver (3-state)	0.8 - 3.6	0.8 - 3.6	± 12	-40 to 125		•	•		•			•					
74AVC4T3144-Q100	4-bit dual-supply voltage-translating buffer (3-state)	0.8 - 3.6	0.8 - 3.6	± 12	-40 to 125		•			•			•					
74AVC4T774-Q100	4-bit dual supply translating transceiver (3-state)	0.8 - 3.6	0.8 - 3.6	± 12	-40 to 125	•												
74AVC4TD245-Q100	4-bit dual-supply voltage-translating transceiver (3-state)	0.8 - 3.6	0.8 - 3.6	± 12	-40 to 125								•					
74AVC8T245-Q100	8-bit dual-supply voltage level translating transceiver (3-state)	0.8 - 3.6	0.8 - 3.6	± 12	-40 to 125							•				•		
74AVC16T245-Q100	16-bit dual-supply voltage level translating transceiver (3-state)	0.8 - 3.6	0.8 - 3.6	± 12	-40 to 125													•
74AVCH4T245-Q100	4-bit dual-supply voltage translating transceiver with bus hold (3-state)	0.8 - 3.6	0.8 - 3.6	± 12	-40 to 125			•		•			•					
74LVC4T3144-Q100	4-bit dual supply buffer/line driver (3-state)	1.2 to 5.5	1.2 to 5.5	± 24	-40 to 125				•									
74LVC4245A-Q100	8-bit dual-supply voltage translating transceiver (3-state)	1.5 - 5.5	1.5 - 3.6	± 24	-40 to 125							•				•		
74LVC8T245-Q100	8-bit dual-supply voltage translating transceiver (3-state)	1.2 - 5.5	1.2 - 5.5	± 24	-40 to 125							•				•		
74LVCH8T245-Q100	8-bit dual-supply voltage translating transceiver with bus hold (3-state)	1.2 - 5.5	1.2 - 5.5	± 24	-40 to 125							•				•		
HEF4104B-Q100	Quad low-to-high voltage translator (3-state)	3.0 - 15.0	3.0 - 15.0	± 2.4	-40 to 85			•										
LSF0108-Q100	8-bit bidirectional multi-voltage level translator; open-drain; push-pull	0.95 - 5.0	0.95 - 5.0	+64	-40 to 125						•				•			
LSF0204-Q100	4-bit bidirectional multi-voltage level translator; open-drain; push-pull	0.95 - 5.0	0.95 - 5.0	+64	-40 to 125	•			•									
NXB0104-Q100	4-bit Dual supply translating transceiver; auto direction sensing; 3-state	1.2 - 3.6	1.65 - 5.5	± 0.02	-40 to 125	•			•			•						
NXB0106-Q100	6-bit Dual supply translating transceiver; auto direction sensing; 3-state	1.2 - 3.6	1.65 - 5.5	± 0.02	-40 to 125					•			•					
NXB0108-Q100	8-bit Dual supply translating transceiver; auto direction sensing; 3-state	1.2 - 3.6	1.65 - 5.5	± 0.02	-40 to 125						•			•				
NXS0104-Q100	4-bit Dual supply translating transceiver; open drain; auto direction sensing	1.65 - 3.6	2.3 - 5.5	-0.02/+1	-40 to 125	•			•			•						
NXS0108-Q100	8-bit Dual supply translating transceiver; open drain; auto direction sensing	1.65 - 3.6	2.3 - 5.5	-0.02/+1	-40 to 125						•			•				
NXS0506-Q100	SD 3.0-compatible memory card integrated auto-direction control and level translator with EMI filter and ESD protection	1.1 - 1.95	1.7 - 3.6	± 2	-40 to 85		•											

Voltage translators (Level-shifters)

Type number	Description	Features				Package (suffix)												
		V _{cc} (A) (V)	V _{cc} (B) (V)	I _o (mA)	T _{amb} (°C)	SOT1174-1 (GU12)	SOT1161-1 (GU)	SOT109-1 (D)	SOT402-1 (PW)	SOT403-1 (PW)	SOT360-1 (PW)	SOT355-1 (PW)	SOT762-1 (BQ)	SOT763-1 (BQ)	SOT764-1 (BQ)	SOT815-1 (BQ)	SOT362-1 (DGG)	SOT480-1 (DGV)
NXU1014-Q100	4-bit dual-supply voltage level translating buffer with Schmitt-trigger	0.09 - 5.5	0.09 - 5.5	+/-25	-40 to 125	•			•				•					
NXU0204-Q100	4-bit dual-supply voltage level translating buffer with Schmitt-trigger	0.09 - 5.5	0.09 - 5.5	+/-25	-40 to 125	•			•				•					
NXU0304-Q100	4-bit dual-supply voltage level translating buffer with Schmitt-trigger	0.09 - 5.5	0.09 - 5.5	+/-25	-40 to 125	•			•				•					

Analog switches and multiplexers - Analog switches

Type number	Description	Features					Package (suffix)								
		Configuration	V _{CC} (V)	R _{ON} (Ω)	R _{ON} (FLAT) (Ω)	T _{amb} (°C)	SOT108-1 (D)	SOT402-1 (PW)	SOT762-1 (BQ)	SOT109-1 (D)	SOT403-1 (PW)	SOT763-1 (BQ)	SOT355-1 (PW)	SOT815-1 (BQ)	SOT163-1 (D)
74HC4051-Q100	Single-pole, octal-throw analog switch	SP8T-Z	2.0 - 10.0	200	20	-40 to 125				•	•	•			
74HCT4051-Q100	Single-pole, octal-throw analog switch; TTL-enabled	SP8T-Z	4.5 - 5.5	225	20	-40 to 125				•	•	•			
74HC4052-Q100	Dual single-pole, quad-throw analog switch	SP4T-Z	2.0 - 10.0	200	20	-40 to 125				•	•	•			
74HCT4052-Q100	Dual single-pole, quad-throw analog switch; TTL-enabled	SP4T-Z	4.5 - 5.5	200	20	-40 to 125				•	•	•			
74HC4053-Q100	Triple single-pole, double-throw analog switch	SPDT-Z	2.0 - 10.0	200	20	-40 to 125				•	•	•			
74HCT4053-Q100	Triple single-pole, double-throw analog switch; TTL-enabled	SPDT-Z	4.5 - 5.5	200	20	-40 to 125				•	•	•			
74HC4066-Q100	Quad single-pole, single-throw analog switch	SPST-NO	2.0 - 10.0	105	23	-40 to 125	•	•	•						
74HCT4066-Q100	Quad single-pole, single-throw analog switch; TTL-enabled	SPST-NO	4.5 - 5.5	118	23	-40 to 125	•	•	•						
74HC4067-Q100	Single-pole, 16-throw analog switch	SP16T-Z	2.0 - 10.0	200	25	-40 to 125							•	•	
74HCT4067-Q100	Single-pole, 16-throw analog switch; TTL-enabled	SP16T-Z	4.5 - 5.5	225	25	-40 to 125							•	•	
74HC4351-Q100	Single-pole, octal-throw analog switch with latch	SP8T-Z	2.0 - 10.0	200	20	-40~125									•
74HCT4351-Q100	Single-pole, octal-throw analog switch with latch; TTL enabled	SP8T-Z	4.5 - 5.5	225	20	-40~125									•
74HCT4316-Q100	Quad single-pole, single-throw analog switch with translation; TTL enabled	SPST-NO	4.5 - 5.5	400	50	-40~125				•					
74HC4851-Q100	Single-pole, octal-throw analog switch	SP8T-Z	2.0 - 10.0	220	-	-40 to 125				•	•	•			
74HCT4851-Q100	Single-pole, octal-throw analog switch; TTL-enabled	SP8T-Z	4.5 - 5.5	240	-	-40 to 125				•	•	•			
74HC4852-Q100	Dual single-pole, quad-throw analog switch	SP4T-Z	2.0 - 10.0	220	-	-40 to 125				•	•	•			
74HCT4852-Q100	Dual single-pole, quad-throw analog switch; TTL-enabled	SP4T-Z	4.5 - 5.5	240	-	-40 to 125				•	•	•			
74LV4051-Q100	8-channel analog multiplexer/demultiplexer	SP8T-Z	1.0 - 6.0	135	35	-40 to 125						•			
74LV4052-Q100	Dual single-pole, quad-throw analog switch	SP4T-Z	1.0 - 6.0	125	15	-40 to 125				•	•				
74LV4053-Q100	Triple single-pole, double-throw analog switch	SPDT-Z	1.0 - 6.0	150	30	-40 to 125				•	•	•			
74LVC4066-Q100	Quad single-pole, single-throw analog switch	SPST-NO	1.65 - 5.5	15	1.5	-40 to 125	•	•	•						
HEF4051B-Q100	Single-pole, octal-throw analog switch	SP8T-Z	3.0 - 15	175	30	-40 to 85				•	•				
HEF4052B-Q100	Dual single-pole, quad-throw analog switch	SP4T-Z	3.0 - 15	175	30	-40 to 85				•	•				
HEF4053B-Q100	Triple single-pole, double-throw analog switch	SPDT-Z	3.0 - 15	175	30	-40 to 85				•	•				
HEF4066B-Q100	Quad single-pole, single-throw analog switch	SPST-NO	3.0 - 15	175	20	-40 to 85	•								
HEF4067B-Q100	Single-pole, 16-throw analog switch	SP16T-Z	3.0 - 15	175	20	-40 to 85							•		
NMUX1308-Q100	Single-pole octal-throw analog switch; injection current control	SP8T-Z	1.5 - 5.5	60	-	-40 to 125						•	•		
NMUX1309-Q100	Dual single-pole quad-throw analog switch; injection current control	2 x SP4T-Z	1.5 - 5.5	60	-	-40 to 125						•	•		

Analog switches and multiplexers - Bus switches

Type number	Description	Features				Package (suffix)								
		V _{CC} (V)	V _{PASS} (V)	R _{ON} (Ω)	T _{amb} (°C)	SOT402-1 (PW)	SOT762-1 (BQ)	SOT109-1 (D)	SOT403-1 (PW)	SOT763-1 (BQ)	SOT163-1 (D)	SOT360-1 (PW)	SOT764-1 (BQ)	SOT355-1 (PW)
74CBTLV3125-Q100	Quad bus switch	2.3 - 3.6	3.3	7	-40 to 125	•	•							
74CBTLV3126-Q100	Quad bus switch	2.3 - 3.6	3.3	7	-40 to 125	•	•							
74CBTLV3244-Q100	4-bit bus switch with four output enables	2.3 - 3.6	3.3	7	-40 to 125								•	
74CBTLV3245-Q100	8-bit bus switch with one output enable	2.3 - 3.6	3.3	7	-40 to 125							•	•	
74CBTLVD3245-Q100	Octal bus switch level translator	3.0 - 3.6	1.8	7	-40 to 125								•	
CBT3245A-Q100	Octal bus switch	4.0 - 5.5	3.9	7	-40 to 85								•	
CBTD3384-Q100	10-bit bus switch level translator	4.5 - 5.5	3.3	7	-40~85									•

Analog switches and multiplexers - Multiplexers / Demultiplexers

Type number	Description	Features				Package (suffix)				
		V_{CC} (V)	V_{PASS} (V)	R_{ON} (Ω)	T_{amb} ($^{\circ}$ C)	SOT402-1 (PW)	SOT762-1 (BQ)	SOT109-1 (D)	SOT403-1 (PW)	SOT763-1 (BQ)
74CB3Q3257-Q100	Quad 1-of-2 FET multiplexer/demultiplexer with charge pump	2.3 - 3.6	3.3	4	-40 to 85				•	
74CBTLV3253-Q100	Dual 4:1 mux/demux	2.3 - 3.6	3.3	7	-40 to 125			•	•	•
74CBTLV3257-Q100	Quad 2:1 mux/demux	2.3 - 3.6	3.3	7	-40 to 125			•	•	•
CBT3257A-Q100	Quad 1-of-2 multiplexer/demultiplexer	4.0 - 5.5	3.9	7	-40 to 85				•	

Interface - I²C general purpose I/O (GPIO)

Type number	Description	Features				Package (suffix)	
		$V_{CC(A)}$ (V)	$V_{CC(B)}$ (V)	I_O (mA)	T_{amb} ($^{\circ}$ C)	SOT355-1 (PW)	SOT804-1-1 (BY)
NCA9535BY-Q100	Low-voltage 16-Bit I ² C and SMBus low-power I/O expander with interrupt output and configuration registers	1.65 - 5.5	n.a.	- 10 / 25	-40~125	•	
NCA9535PW-Q100	Low-voltage 16-Bit I ² C and SMBus low-power I/O expander with interrupt output and configuration registers	1.65 - 5.5	n.a.	- 10 / 25	-40~125		•
NCA9539BY-Q100	Low-voltage 16-Bit I ² C and SMBus low-power I/O expander with interrupt output, reset pin and configuration registers	1.65 - 5.5	n.a.	- 10 / 25	-40~125	•	
NCA9539PW-Q100	Low-voltage 16-Bit I ² C and SMBus low-power I/O expander with interrupt output, reset pin and configuration registers	1.65 - 5.5	n.a.	- 10 / 25	-40~125		•
NCA9555BY-Q100	Low-voltage 16-bit I ² C and SMBus I/O expander with interrupt output and configuration registers	1.65 - 5.5	n.a.	- 10 / 25	-40~125	•	
NCA9555PW-Q100	Low-voltage 16-bit I ² C and SMBus I/O expander with interrupt output and configuration registers	1.65 - 5.5	n.a.	- 10 / 25	-40~125		•
NCA9595PW-Q100	Low voltage 16-Bit I ² C and SMBus I/O expander with interrupt output, configuration registers and programmable pull-up resistors	1.65 - 5.5	n.a.	- 10 / 25	-40~125	•	

Q100 Functions and Mini-Logic Packages (≤ 10 pins)

Logic - Buffers / Inverters

Type number	Description	Features				Package (suffix)								
		V_{CC} (V)	I_O (mA)	$t_{r,d}$ (ns)	T_{amb} (°C)	SOT353-1 (GW)	SOT753 (GV)	SOT363 (GW)	SOT457 (GV)	SOT505-2 (DP)	SOT765-1 (DC)	SOT886 (GM)	SOT1202 (GS)	SOT8065-1 (GZ)
74AHC1GU04-Q100	Single inverter; unbuffered	2.0 - 5.5	± 8	2.6	-40 to 125	•	•							•
74AHC3GU04-Q100	Triple inverter; unbuffered	2.0 - 5.5	± 8	2.5	-40 to 125					•	•			
74AHC1G04-Q100	Single inverter	2.0 - 5.5	± 8	3.1	-40 to 125	•	•							•
74AHCT1G04-Q100	Single inverter; TTL-enabled	4.5 - 5.5	± 8	3.4	-40 to 125	•	•							•
74AHC1G07-Q100	Single buffer; open-drain	2.0 - 5.5	8	4.2	-40 to 125	•	•							•
74AHC1G17-Q100	Single buffer with Schmitt-trigger inputs	2.0 - 5.5	± 8	3.2	-40 to 125	•								•
74AHCT1G17-Q100	Single buffer with Schmitt-trigger inputs; TTL-enabled	4.5 - 5.5	± 8	4.1	-40 to 125	•								•
74AHC1G125-Q100	Single buffer/line driver (3-state)	2.0 - 5.5	± 8	3.4	-40 to 125	•	•							•
74AHCT1G125-Q100	Single buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	± 8	3.4	-40 to 125	•	•							•
74AHC1G126-Q100	Single buffer/line driver (3-state)	2.0 - 5.5	± 8	3.4	-40 to 125	•	•							•
74AHCT1G126-Q100	Single buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	± 8	3.4	-40 to 125	•	•							•
74AHC2G125-Q100	Dual buffer/line driver (3-state)	2.0 - 5.5	± 8	3.4	-40 to 125					•	•			
74AHCT2G125-Q100	Dual buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	± 8	3.4	-40 to 125					•	•			
74AHC2G126-Q100	Dual buffer/line driver (3-state)	2.0 - 5.5	± 8	3.4	-40 to 125					•	•			
74AHCT2G126-Q100	Dual buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	± 8	3.4	-40 to 125						•			
74AHC2G241-Q100	Dual buffer/line driver (3-state)	2.0 - 5.5	± 8	3.4	-40 to 125					•	•			
74AHCT2G241-Q100	Dual buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	± 8	3.4	-40 to 125						•			
74AHC3G04-Q100	Triple inverter	2.0 - 5.5	± 8	3.1	-40 to 125					•	•			
74AHCT3G04-Q100	Triple inverter; TTL-enabled	4.5 - 5.5	± 8	3.0	-40 to 125						•			
74AUP1G04-Q100	Single inverter	1.1 - 3.6	± 1.9	4.0	-40 to 125	•	•							•
74AUP1G06-Q100	Single inverter; open-drain	1.1 - 3.6	1.9	4.5	-40 to 125	•								•
74AUP1G07-Q100	Buffer; open-drain	0.8 - 3.6	1.9	4.5	-40 to 125	•								•
74AUP1G34-Q100	Single buffer	1.1 - 3.6	± 1.9	3.9	-40 to 125	•								•
74AUP1G125-Q100	Single buffer/line driver (3-state)	1.1 - 3.6	± 1.9	4.3	-40 to 125	•						•	•	•
74AUP2G04-Q100	Dual inverter	1.1 - 3.6	± 1.9	4.0	-40 to 125			•						
74AUP2GU04-Q100	Dual inverter; unbuffered	1.1 - 3.6	± 1.9	2.3	-40 to 125			•				•		
74HC1GU04-Q100	Single inverter; unbuffered	2.0 - 6.0	± 2.6	5.0	-40 to 125	•	•							
74HC2GU04-Q100	Dual inverter; unbuffered	2.0 - 6.0	± 5.2	5.0	-40 to 125			•	•					
74HC3GU04-Q100	Triple inverter; unbuffered	2.0 - 6.0	± 5.2	6.0	-40 to 125					•	•			
74HC1G04-Q100	Single inverter	2.0 - 6.0	± 2.6	7.0	-40 to 125	•	•							
74HCT1G04-Q100	Single inverter; TTL-enabled	4.5 - 5.5	± 2.0	8.0	-40 to 125	•	•							
74HC1G125-Q100	Single buffer/line driver (3-state)	2.0 - 6.0	± 2.6	9.0	-40 to 125	•	•							
74HCT1G125-Q100	Single buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	± 2.0	10	-40 to 125	•	•							

Logic - Buffers / Inverters

Type number	Description	Features				Package (suffix)								
		V _{CC} (V)	I _O (mA)	t _{pd} (ns)	T _{amb} (°C)	SOT353-1 (GW)	SOT753 (GV)	SOT363 (GW)	SOT457 (GV)	SOT505-2 (DP)	SOT765-1 (DC)	SOT886 (GM)	SOT1202 (GS)	SOT8065-1 (GZ)
74HC2G04-Q100	Dual inverter	2.0 - 6.0	± 5.2	8.0	-40 to 125			•	•					
74HCT2G04-Q100	Dual inverter; TTL-enabled	4.5 - 5.5	± 4.0	10	-40 to 125			•	•					
74HC2G34-Q100	Dual buffer	2.0 - 6.0	± 5.2	9.0	-40 to 125			•	•					
74HCT2G34-Q100	Dual buffer; TTL-enabled	4.5 - 5.5	± 4.0	10	-40 to 125			•	•					
74HC2G125-Q100	Dual buffer/line driver (3-state)	2.0 - 6.0	± 5.2	10	-40 to 125					•	•			
74HCT2G125-Q100	Dual buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	± 4.0	12	-40 to 125					•	•			
74HC3G04-Q100	Triple inverter	2.0 - 6.0	± 5.2	8.0	-40 to 125					•	•			
74HCT3G04-Q100	Triple inverter; TTL-enabled	4.5 - 5.5	± 4.0	10	-40 to 125					•	•			
74HC3G07-Q100	Triple buffer; open-drain	2.0 - 6.0	5.2	9.0	-40 to 125					•	•			
74HCT3G07-Q100	Triple buffer; open-drain; TTL-enabled	4.5 - 5.5	4	9.0	-40 to 125					•	•			
74HC3G34-Q100	Triple buffer	2.0 - 6.0	± 5.2	9.0	-40 to 125					•	•			
74HCT3G34-Q100	Triple buffer; TTL-enabled	4.5 - 5.5	± 4.0	10	-40 to 125					•	•			
74LV1T04-Q100	Single supply translating inverter	1.6 - 5.5	± 8.0	6.2	-40 to 125	•	•							
74LV1T34-Q100	Single supply translating buffer	1.6 - 5.5	± 8.0	6.3	-40 to 125	•	•							•
74LVC1G04-Q100	Single inverter	1.65 - 5.5	± 32	2.0	-40 to 125	•	•							•
74LVC1G16-Q100	Single buffer	1.65 - 5.5	± 32	2.0	-40 to 125	•								
74LVC1G06-Q100	Single inverter; open-drain	1.65 - 5.5	32	2.3	-40 to 125	•	•							•
74LVC1G07-Q100	Single buffer; open-drain	1.65 - 5.5	32	2.2	-40 to 125	•	•						•	•
74LVC1G34-Q100	Single buffer	1.65 - 5.5	± 32	2.0	-40 to 125	•	•							•
74LVC1G125-Q100	Single buffer/line driver (3-state)	1.65 - 5.5	± 32	2.1	-40 to 125	•	•					•		•
74LVC1G126-Q100	Single buffer/line driver (3-state)	1.65 - 5.5	± 32	2.0	-40 to 125	•	•							•
74LVC1G240-Q100	Single inverter/line driver (3-state)	1.65 - 5.5	± 32	2.1	-40 to 125	•								
74LVC1GU04-Q100	Single inverter; unbuffered	1.65 - 5.5	± 32	1.6	-40 to 125	•	•							•
74LVC2G04-Q100	Dual inverter	1.65 - 5.5	± 32	2.7	-40 to 125			•	•				•	
74LVC2G06-Q100	Dual inverter; open-drain	1.65 - 5.5	32	2.3	-40 to 125			•	•					
74LVC2G07-Q100	Dual buffer; open-drain	1.65 - 5.5	32	2.6	-40 to 125			•	•					
74LVC2G34-Q100	Dual buffer	1.65 - 5.5	± 32	2.3	-40 to 125	•	•					•		
74LVC2G125-Q100	Dual buffer/line driver (3-state)	1.65 - 5.5	± 32	2.3	-40 to 125					•	•			
74LVC2G126-Q100	Dual buffer/line driver (3-state)	1.65 - 5.5	± 32	2.4	-40 to 125					•	•			
74LVC2G240-Q100	Dual inverter/line driver (3-state)	1.65 - 5.5	± 32	2.5	-40 to 125					•	•			
74LVC2G241-Q100	Dual buffer/line driver (3-state)	1.65 - 5.5	± 32	2.6	-40 to 125					•	•			
74LVC2GU04-Q100	Dual inverter; unbuffered	1.65 - 5.5	± 32	2.3	-40 to 125			•	•	•				
74LVC3G04-Q100	Triple inverter	1.65 - 5.5	± 32	2.7	-40 to 125					•	•			
74LVC3G07-Q100	Triple buffer; open-drain	1.65 - 5.5	32	2.1	-40 to 125					•	•			
74LVC3G34-Q100	Triple buffer	1.65 - 5.5	± 32	2.2	-40 to 125					•	•			
74LVC3GU04-Q100	Triple unbuffered inverter	1.65 - 5.5	± 32	2.3	-40 to 125						•			

Logic - Gates

Type number	Description	Features				Package (suffix)									
		V _{CC} (V)	I _O (mA)	t _{pd} (ns)	T _{amb} (°C)	SOT353-1 (GW)	SOT753 (GV)	SOT363 (GW)	SOT457 (GV)	SOT505-2 (DP)	SOT765-1 (DC)	SOT886 (GM)	SOT1203 (GS)	SOT1160 (GU)	SOT8065-1 (GZ)
74AHC1G09-Q100	Single 2-input AND gate; open-drain	2.0 - 5.5	± 8	3.2	-40 to 125	•	•								•
74AHC1G00-Q100	Single 2-input NAND gate	2.0 - 5.5	± 8	3.5	-40 to 125	•	•								•
74AHC1G00-Q100	Single 2-input NAND gate; TTL-enabled	4.5 - 5.5	± 8	3.6	-40 to 125	•	•								•
74AHC1G02-Q100	Single 2-input NOR gate	2.0 - 5.5	± 8	3.2	-40 to 125	•	•								•
74AHC1G02-Q100	Single 2-input NOR gate; TTL-enabled	4.5 - 5.5	± 8	3.5	-40 to 125	•	•								•
74AHC1G08-Q100	Single 2-input AND gate	2.0 - 5.5	± 8	3.2	-40 to 125	•	•								•
74AHC1G08-Q100	Single 2-input AND gate; TTL-enabled	4.5 - 5.5	± 8	3.6	-40 to 125	•	•								•
74AHC1G32-Q100	Single 2-input OR gate	2.0 - 5.5	± 8	3.2	-40 to 125	•	•								•
74AHC1G32-Q100	Single 2-input OR gate; TTL-enabled	4.5 - 5.5	± 8	3.3	-40 to 125	•	•								•
74AHC1G86-Q100	2-input EXCLUSIVE-OR gate	2.0 - 5.5	± 8	3.4	-40 to 125	•	•								•
74AHC1G86-Q100	2-input EXCLUSIVE-OR gate; TTL-enabled	4.5 - 5.5	± 8	3.5	-40 to 125	•	•								•
74AHC2G00-Q100	Dual 2-input NAND gate	2.0 - 5.5	± 8	3.5	-40 to 125					•	•				
74AHC2G00-Q100	Dual 2-input NAND gate; TTL-enabled	4.5 - 5.5	± 8	3.6	-40 to 125						•				
74AHC2G08-Q100	Dual 2-input AND gate	2.0 - 5.5	± 8	3.2	-40 to 125					•	•				
74AHC2G08-Q100	Dual 2-input AND gate; TTL-enabled	4.5 - 5.5	± 8	3.6	-40 to 125					•	•				
74AHC2G32-Q100	Dual 2-input OR gate	2.0 - 5.5	± 8	3.2	-40 to 125					•	•				
74AHC2G32-Q100	Dual 2-input OR gate; TTL-enabled	4.5 - 5.5	± 8	3.3	-40 to 125					•	•				
74AUP1G00-Q100	Single 2-input NAND gate	1.1 - 3.6	± 1.9	8.3	-40 to 125	•									•
74AUP1G02-Q100	Single 2-input NOR gate	1.1 - 3.6	± 1.9	8.2	-40 to 125	•									•
74AUP1G08-Q100	Single 2-input AND gate	1.1 - 3.6	± 1.9	8.2	-40 to 125	•						•			•
74AUP1G09-Q100	Single 2-input AND gate; open-drain	2.0 - 5.5	± 8	3.2	-40 to 125	•									•
74AUP1G32-Q100	Single 2-input OR gate	1.1 - 3.6	± 1.9	7.9	-40 to 125	•						•			•
74AUP1G86-Q100	Single 2-input EXCLUSIVE-OR gate	1.1 - 3.6	± 1.9	3.3	-40 to 125	•									
74AUP1Z04-Q100	Crystal driver with enable and internal resistor	1.1 - 3.6	± 1.9	5.6	-40 to 125			•							
74AUP2G00-Q100	Dual 2-input NAND gate	1.1 - 3.6	± 1.9	8.3	-40 to 125						•				
74AUP2G57-Q100	Configurable gate; Schmitt-trigger	1.1 - 3.6	± 1.9	8.7	-40 to 125									•	
74HC1G86-Q100	Single 2-input EXCLUSIVE-OR gate	2.0 - 6.0	± 2.6	9.0	-40 to 125	•	•								•
74HCT1G86-Q100	Single 2-input EXCLUSIVE-OR gate	4.5 - 5.5	± 2	10	-40 to 125	•	•								•
74HC1G00-Q100	Single 2-input NAND gate	2.0 - 6.0	± 2.6	7.0	-40 to 125	•	•								•
74HCT1G00-Q100	Single 2-input NAND gate; TTL-enabled	4.5 - 5.5	± 2	10	-40 to 125	•	•								•
74HC1G02-Q100	Single 2-input NOR gate	2.0 - 6.0	± 2.6	7.0	-40 to 125	•	•								•
74HCT1G02-Q100	Single 2-input NOR gate; TTL-enabled	4.5 - 5.5	± 2.0	9.0	-40 to 125	•	•								•
74HC1G08-Q100	Single 2-input AND gate	2.0 - 6.0	± 5.2	7.0	-40 to 125	•	•								•
74HCT1G08-Q100	Single 2-input AND gate; TTL-enabled	4.5 - 5.5	± 2	11	-40 to 125	•	•								•
74HC1G32-Q100	Single 2-input OR gate	2.0 - 6.0	± 2.6	8.0	-40 to 125	•	•								•
74HCT1G32-Q100	Single 2-input OR gate; TTL-enabled	4.5 - 5.5	± 2.0	10	-40 to 125	•	•								•
74HC2G00-Q100	Dual 2-input NAND gate	2.0 - 6.0	± 5.6	9.0	-40 to 125					•	•				
74HCT2G00-Q100	Dual 2-input NAND gate; TTL-enabled	4.5 - 5.5	± 4	12	-40 to 125					•	•				
74HC2G02-Q100	Dual 2-input NOR gate	2.0 - 6.0	± 5.2	9.0	-40 to 125					•	•				

Logic - Gates

Type number	Description	Features				Package (suffix)								
		V _{cc} (V)	I _o (mA)	t _{pd} (ns)	T _{amb} (°C)	SOT353-1 (GW)	SOT753 (GV)	SOT363 (GW)	SOT457 (GV)	SOT505-2 (DP)	SOT765-1 (DC)	SOT886 (GM)	SOT1203 (GS)	SOT8065-1 (GZ)
74HCT2G02-Q100	Dual 2-input NOR gate; TTL-enabled	4.5 - 5.5	± 4	12	-40 to 125					•	•			
74HC2G08-Q100	Dual 2-input AND gate	2.0 - 6.0	± 5.2	9.0	-40 to 125					•	•			
74HCT2G08-Q100	Dual 2-Input AND gate; TTL-enabled	4.5 - 5.5	± 4	14	-40 to 125					•	•			
74HC2G32-Q100	Dual 2-input OR gate	2.0 - 6.0	± 5.2	9.0	-40 to 125					•	•			
74HCT2G32-Q100	Dual 2-input OR gate; TTL-enabled	4.5 - 5.5	± 4.0	13	-40 to 125					•	•			
74HC2G86-Q100	Dual 2-input EXCLUSIVE-OR gate	2.0 - 6.0	± 5.2	9.0	-40 to 125					•	•			
74HCT2G86-Q100	Dual 2-input EXCLUSIVE-OR gate; TTL-enabled	4.5 - 5.5	± 4.0	11	-40 to 125					•	•			
74LVC1G00-Q100	Single 2-input NAND gate	1.65 - 5.5	± 32	2.2	-40 to 125	•	•							•
74LVC1G02-Q100	Single 2-input NOR gate	1.65 - 5.5	± 32	2.1	-40 to 125	•	•							•
74LVC1G08-Q100	Single 2-input AND gate	1.65 - 5.5	± 32	2.1	-40 to 125	•	•					•		•
74LVC1G10-Q100	Single 3-input NAND gate	1.65 - 5.5	± 32	2.6	-40 to 125			•						
74LVC1G11-Q100	Single 3-input AND gate	1.65 - 5.5	± 32	2.6	-40 to 125			•	•					
74LVC1G27-Q100	Single 3-input NOR gate	1.65 - 5.5	± 32	2.6	-40 to 125			•						
74LVC1G32-Q100	Single 2-input OR gate	1.65 - 5.5	± 32	2.1	-40 to 125	•	•					•		•
74LVC1G38-Q100	Single 2-input NAND gate; open-drain	1.65 - 5.5	32	2.3	-40 to 125	•	•							•
74LVC1G57-Q100	Configurable gate; Schmitt-trigger	1.65 - 5.5	± 32	3.8	-40 to 125			•	•					
74LVC1G58-Q100	Configurable gate; Schmitt-trigger	1.65 - 5.5	± 32	3.8	-40 to 125			•	•					
74LVC1G86-Q100	Single 2-input EXCLUSIVE-OR gate	1.65 - 5.5	± 32	2.4	-40 to 125	•	•							•
74LVC1G97-Q100	Configurable gate; Schmitt-trigger	1.65 - 5.5	± 32	6.3	-40 to 125			•						
74LVC1G98-Q100	Configurable gate; Schmitt-trigger	1.65 - 5.5	± 32	6.3	-40 to 125				•					
74LVC1G332-Q100	Single 3-input OR gate	1.65 - 5.5	± 32	2.6	-40 to 125			•	•					
74LVC1GX04-Q100	Crystal driver	1.65 - 5.5	± 24	2.8	-40 to 125			•	•					
74LVC2G00-Q100	Dual 2-input NAND gate	1.65 - 5.5	± 32	2.2	-40 to 125						•			
74LVC2G02-Q100	Dual 2-input NOR gate	1.65 - 5.5	± 32	2.4	-40 to 125					•	•			
74LVC2G08-Q100	Dual 2-input AND gate	1.65 - 5.5	± 24	2.1	-40 to 125					•	•		•	
74LVC2G32-Q100	Dual 2-input OR gate	1.65 - 5.5	± 32	2.2	-40 to 125					•	•			
74LVC2G86-Q100	Dual 2-input EXCLUSIVE-OR gate	1.65 - 5.5	± 32	2.3	-40 to 125					•	•			

Logic - Schmitt-trigger IC's

Type number	Description	Features				Package (suffix)								
		V_{CC} (V)	I_O (mA)	t_{pd} (ns)	T_{amb} (°C)	SOT353-1 (GW)	SOT753 (GV)	SOT363 (GW)	SOT457 (GV)	SOT505-2 (DP)	SOT765-1 (DC)	SOT886 (GM)	SOT1269-2 (GX4)	SOT8065-1 (GZ)
74AHC1G14-Q100	Single inverter Schmitt-trigger	2.0 - 5.5	± 8	3.2	-40 to 125	•	•							•
74AHCT1G14-Q100	Single inverter Schmitt-trigger; TTL-enabled	4.5 - 5.5	± 8	4.1	-40 to 125	•	•							•
74AHC3G14-Q100	Triple inverter Schmitt-trigger	2.0 - 5.5	± 8	3.2	-40 to 125					•	•			
74AHCT3G14-Q100	Triple inverter Schmitt-trigger; TTL-enabled	4.5 - 5.5	± 8	4.1	-40 to 125					•	•			
74AUP1G14-Q100	Low-power Schmitt trigger inverter	0.8 - 3.6	± 1.9	3.7	-40 to 125								•	
74AUP1G17-Q100	Low-power Schmitt trigger	0.8 - 3.6	± 1.9	3.6	-40 to 125	•								
74AUP1G132-Q100	Single 2-input NAND gate; Schmitt-trigger	1.1 - 3.6	± 1.9	10	-40 to 125	•								•
74HC1G14-Q100	Single inverter Schmitt-trigger	2.0 - 6.0	± 2.6	10	-40 to 125	•	•							
74HCT1G14-Q100	Single inverter Schmitt-trigger; TTL-enabled	4.5 - 5.5	± 2.0	15	-40 to 125	•	•							
74HC2G14-Q100	Dual inverter Schmitt-trigger	2.0 - 6.0	± 5.2	16	-40 to 125			•	•					
74HCT2G14-Q100	Dual inverter Schmitt-trigger; TTL-enabled	4.5 - 5.5	± 4.0	21	-40 to 125			•	•					
74HC2G17-Q100	Dual buffer Schmitt-trigger	2.0 - 6.0	± 5.2	12	-40 to 125			•	•					
74HCT2G17-Q100	Dual buffer Schmitt-trigger; TTL-enabled	4.5 - 5.5	± 4.0	21	-40 to 125			•	•					
74HC3G14-Q100	Triple inverter Schmitt-trigger	2.0 - 6.0	± 5.2	16	-40 to 125					•	•			
74HCT3G14-Q100	Triple inverter Schmitt-trigger; TTL-enabled	4.5 - 5.5	± 4.0	21	-40 to 125					•	•			
74LVC1G14-Q100	Single inverter Schmitt-trigger	1.65 - 5.5	± 32	3.0	-40 to 125	•	•					•	•	•
74LVC1G17-Q100	Single buffer Schmitt-trigger	1.65 - 5.5	± 32	3.0	-40 to 125	•	•					•		•
74LVC2G14-Q100	Dual inverter Schmitt-trigger	1.65 - 5.5	± 32	3.9	-40 to 125			•	•			•		
74LVC2G17-Q100	Dual buffer Schmitt-trigger	1.65 - 5.5	± 32	3.6	-40 to 125			•	•					
74LVC3G17-Q100	Triple buffer Schmitt-trigger	1.65 - 5.5	± 32	3.6	-40 to 125					•	•			

Logic - Flip-flops

Type number	Description	Features				Package (suffix)							
		V_{CC} (V)	I_O (mA)	t_{pd} (ns)	T_{amb} (°C)	SOT353-1 (GW)	SOT753 (GV)	SOT363 (GW)	SOT457 (GV)	SOT505-2 (DP)	SOT765-1 (DC)	SOT833 (GT)	SOT8065-1 (GZ)
74AHC1G79-Q100	Single D-type flip-flop; positive-edge trigger	2.0 - 5.5	± 8	3.5	-40 to 125	•	•						
74AHC1G79-Q100	Single D-type flip-flop; positive-edge trigger; TTL-enabled	4.5 - 5.5	± 8	3.5	-40 to 125	•	•						•
74AUP1G74-Q100	Single D-type flip-flop with set and reset; positive-edge trigger	1.1 - 3.6	± 1.9	8.1	-40 to 125						•		
74AUP1G175-Q100	Single D flip-flop with reset; positive-edge trigger	1.1 - 3.6	± 1.9	7.4	-40 to 125			•					
74AUP1G374-Q100	Single D-type flip-flop; positive-edge trigger (3-state)	1.1 - 3.6	± 1.9	7.9	-40 to 125			•					
74AUP2G79-Q100	Dual D-type flip-flop; positive-edge trigger	1.1 - 3.6	± 1.9	8.5	-40 to 125						•		
74LVC1G74-Q100	Single D-type flip-flop with set and reset; positive-edge trigger	1.65 - 5.5	± 32	3.5	-40 to 125					•	•	•	
74LVC1G79-Q100	Single D-type flip-flop; positive-edge trigger	1.65 - 5.5	± 32	2.2	-40 to 125	•	•						•
74LVC1G80-Q100	Single D-type flip-flop; positive-edge trigger	1.65 - 5.5	± 32	2.4	-40 to 125	•	•						•
74LVC1G175-Q100	Single D flip-flop with reset; positive-edge trigger	1.65 - 5.5	± 32	3.1	-40 to 125			•	•				
74LVC2G74-Q100	Single D-type flip-flop with set and reset; positive-edge trigger	1.65 - 5.5	± 32	3.5	-40 to 125					•	•		

Logic - Latches / Registered drivers

Type number	Description	Features				Package (suffix)	
		V_{CC} (V)	I_O (mA)	t_{pd} (ns)	T_{amb} (°C)	SOT363 (GW)	
74AUP1G373-Q100	Single D-type transparent latch (3-state)	1.1 - 3.6	±1.9	8.5	-40 to 125	•	

Logic - Counter / Frequency dividers

Type number	Description	Features				Package (suffix)	
		V_{CC} (V)	Output drive capability (mA)	Logic switching levels	t_{pd} (ns)	T_{amb} (°C)	SOT353-1 (GW)
74AHC1G4208-Q100	08-stage divider and oscillator	2.0 - 5.5	±5.2	CMOS	14	-40 to 125	•
74AHC1G4210-Q100	10-stage divider and oscillator	2.0 - 5.5	±8	CMOS	14	-40 to 125	•
74AHC1G4212-Q100	12-stage divider and oscillator	2.0 - 5.5	±8	CMOS	20	-40 to 125	•
74AHC1G4214-Q100	14-stage divider and oscillator	2.0 - 5.5	±8	CMOS	23	-40 to 125	•
74AHC1G4215-Q100	15-stage divider and oscillator	2.0 - 5.5	±8	CMOS	24	-40 to 125	•

Logic - Decoders / Demultiplexers

Type number	Description	Features				Package (suffix)	
		V_{cc} (V)	I_o (mA)	t_{pd} (ns)	T_{amb} (°C)	SOT363 (GW)	SOT457 (GV)
74LVC1G18-Q100	1-to-2 demultiplexer (3-state)	1.65 - 5.5	± 32	2.3	-40 to 125	•	•
74LVC1G19-Q100	1-to-2 demultiplexer	1.65 - 5.5	± 32	1.8	-40 to 125	•	

Logic - Digital multiplexers

Type number	Description	Features				Package (suffix)		
		V_{cc} (V)	I_o (mA)	t_{pd} (ns)	T_{amb} (°C)	SOT363 (GW)	SOT457 (GV)	SOT886 (GM)
74AUP1G157-Q100	Single 2-input multiplexer	1.1 - 3.6	± 1.9	3.2	-40 to 125			•
74LVC1G157-Q100	Single 2-input multiplexer	1.65 - 5.5	± 32	2.2	-40 to 125	•	•	

Logic - Specialty logic

Type number	Description	Features				Package (suffix)	
		V_{cc} (V)	I_o (mA)	t_{pd} (ns)	T_{amb} (°C)	SOT505-2 (DP)	SOT765-1 (DC)
74LVC1G123-Q100	Single retriggerable monostable multivibrator	1.65 - 5.5	± 32	3.5	-40 to 125	•	•

Voltage translator (Level-shifters)

Type number	Description	Features				Package (suffix)											
		V _{cc} (A) (V)	V _{cc} (B) (V)	I _o (mA)	T _{amb} (°C)	SOT353-1 (GW)	SOT363 (GW)	SOT753 (GV)	SOT505-2 (DP)	SOT765-1 (DC)	SOT552-1 (DP)	SOT833-1 (GT)	SOT886 (GM)	SOT1202 (GS)	SOT1203 (GS)	SOT1160-1 (GU)	SOT8065-1 (GZ)
74AUP1T08-Q100	2-input AND gate with voltage-level translator	2.3 - 3.6	n.a	± 1.9	-40 to 125	•											
74AUP1T34-Q100	Single dual supply translating buffer	1.1 - 3.6	1.1 - 3.6	± 1.9	-40 to 125	•							•				•
74AUP1T97-Q100	Configurable gate with voltage level translation	2.3 - 3.6	n.a	± 1.9	-40 to 125		•										
74AUP1T98-Q100	Configurable gate with voltage level translation	2.3 - 3.6	n.a.	± 1.9	-40 to 125		•										
74AVC1T45-Q100	Single dual-supply voltage level translating transceiver (3-state)	0.8 - 3.6	0.8 - 3.6	± 12	-40 to 125		•						•	•			
74AVCH1T45-Q100	Single dual-supply voltage translating transceiver with bus hold (3-state)	0.8 - 3.6	0.8 - 3.6	± 12	-40 to 125		•										
74AVC2T45-Q100	Dual-bit dual-supply voltage level translating transceiver (3-state)	0.8 - 3.6	0.8 - 3.6	± 12	-40 to 125				•	•		•		•			
74AVCH2T45-Q100	Dual-bit dual-supply voltage translating transceiver with bus hold (3-state)	0.8 - 3.6	0.8 - 3.6	± 12	-40 to 125					•							
74AVC2T245-Q100	Dual-bit dual-supply voltage level translating transceiver (3-state)	0.8 - 3.6	0.8 - 3.6	± 12	-40 to 125											•	
74LV1T04-Q100	Single supply translating inverter	1.6 - 5.5	n.a	± 8	-40 to 125	•											•
74LV1T125-Q100	Single supply translating buffer/line driver; 3-state	1.6 - 5.5	n.a.	± 8	-40 to 125	•											
74LV1T34-Q100	Single supply translating buffer	1.6 - 5.5	n.a	± 8	-40 to 125	•		•									
74LVC1T45-Q100	Single dual-supply voltage level translating transceiver (3-state)	1.2 - 5.5	1.2 - 5.5	± 24	-40 to 125		•						•				
74LVCH1T45-Q100	Single dual-supply voltage translating transceiver with bus hold (3-state)	1.2 - 5.5	1.2 - 5.5	± 24	-40 to 125		•										
74LVC2T45-Q100	Dual-bit dual-supply voltage level translating transceiver (3-state)	1.2 - 5.5	1.2 - 5.5	± 24	-40 to 125					•		•			•		
74LVCH2T45-Q100	Dual-bit dual-supply voltage level translating transceiver with bus hold (3-state)	1.2 - 5.5	1.2 - 5.5	± 24	-40 to 125					•							
LSF0101-Q100	1-bit bidirectional multi-voltage level translator; open-drain; push-pull	0.95 - 5.0	0.95 - 5.0	n.a.	-40 to 125		•										
LSF0102-Q100	2-bit bidirectional multi-voltage level translator; open-drain; push-pull	0.95 - 5.0	0.95 - 5.0	+64	-40 to 125				•	•							
NCA9306-Q100	2-bit bidirectional multi-voltage level translator; open-drain; push-pull	0.95 - 5.0	0.95 - 5.0	n.a.	-40 to 125					•							
NXB0101-Q100	1-bit Dual supply translating transceiver; auto direction sensing (3-state)	1.2 - 3.6	1.65 - 5.5	± 0.02	-40 to 125		•							•			
NXB0102-Q100	2-bit Dual supply translating transceiver; auto direction sensing (3-state)	1.2 - 3.6	1.65 - 5.5	± 0.02	-40 to 125					•							
NXS0101-Q100	1-bit Dual supply translating transceiver; open drain; auto direction sensing	1.65 - 3.6	2.3 - 5.5	-0.02 / 1.0	-40 to 125		•										
NXS0102-Q100	2-bit Dual supply translating transceiver; open drain; auto direction sensing	1.65 - 3.6	2.3 - 5.5	-0.02 / 1.0	-40 to 125					•							
NXT4558-Q100	SIM card interface level translator with enable pin	1.08 - 1.98	1.62 - 3.3	± 1	-40 to 125											•	
NXU0101-Q100	1-bit dual-supply buffer/level translator with Schmitt-trigger;	0.09 - 5.5	0.09 - 5.5	+/-25	-40 to 125	•							•	•			
NXU0102-Q100	2-bit dual-supply buffer/level translator with Schmitt-trigger;	0.09 - 5.5	0.09 - 5.5	+/-25	-40 to 125					•		•					
NXU0202-Q100	2-bit dual-supply buffer/level translator with Schmitt-trigger;	0.09 - 5.5	0.09 - 5.5	+/-25	-40 to 125					•		•					

Analog switches and multiplexers - Analog switches

Type number	Description	Features					Package (suffix)								
		Configuration	V _{CC} (V)	R _{ON} (Ω)	R _{ON} (FLAT) (Ω)	T _{amb} (°C)	SOT353-1 (GW)	SOT753 (GV)	SOT363 (GW)	SOT457 (GV)	SOT505-2 (DP)	SOT765-1 (DC)	SOT552-1 (DP)	SOT886 (GM)	SOT8065-1 (GZ)
74AHC1G66-Q100	Single-pole, single-throw analog switch	SPST-NO	2.0 - 5.5	40	5	-40 to 125	•	•							
74AHCT1G66-Q100	Single-pole, single-throw analog switch; TTL-enabled	SPST-NO	4.5 - 5.5	40	5	-40 to 125	•	•							
74HC1G66-Q100	Single-pole, single-throw analog switch	SPST-NO	2.0 - 9.0	105	23	-40 to 125	•	•							
74HCT1G66-Q100	Single-pole, single-throw analog switch; TTL-enabled	SPST-NO	4.5 - 5.5	118	23	-40 to 125	•	•							
74HC2G66-Q100	Dual single-pole, single-throw analog switch	SPST-NO	2.0 - 9.0	105	23	-40 to 125					•	•			
74HCT2G66-Q100	Dual single-pole, single-throw analog switch; TTL-enabled	SPST-NO	4.5 - 5.5	118	23	-40 to 125					•	•			
74LVC1G53-Q100	Single-pole, double-throw analog switch	SPDT-Z	1.65 - 5.5	15	1.5	-40 to 125					•	•			
74LVC1G66-Q100	Single-pole, single-throw analog switch	SPST-NO	1.65 - 5.5	15	1.5	-40 to 125	•	•							•
74LVC1G384-Q100	Single-pole, single-throw analog switch	SPST-NC	1.65 - 5.5	15	1.5	-40 to 125	•	•							•
74LVC1G3157-Q100	Single-pole, double-throw analog switch	SPDT	1.65 - 5.5	15	1.5	-40 to 125			•	•				•	
74LVC2G3157-Q100	Dual 10 Ω single-pole double-throw analog switch	SPDT	1.65 - 5.5	15	1.5	-40 to 125							•		
74LVC2G66-Q100	Dual single-pole, single-throw analog switch	SPST-NO	1.65 - 5.5	15	1.5	-40 to 125					•	•			
X55A1T4157-Q100	Low-ohmic single-pole double-throw analog switch	SPDT-Z	4.5 - 5.5	4	0.9	-40 to 125			•						

Analog switches and multiplexers - Bus switches

Type number	Description	Features					Package (suffix)	
		Logic switching levels	V_{CC} (V)	V_{PASS} (V)	R_{ON} (Ω)	T_{amb} ($^{\circ}$ C)	SOT353-1 (GW)	SOT753 (GV)
74CBTLV1G125-Q100	Single bus switch	CMOS/LVTTL	2.3 - 3.6	3.3	7	-40~125	•	•

Buffers / Inverters

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	Output Load CL (pF)	t _{pd} (ns)	f _{max} (MHz)	T _{amb} (°C)
74ABT04	Hex inverter	4.5 - 5.5	TTL	-15 / 20	50	2.2	100	-40 to 85
74ABT125	Quad buffer/line driver (3-state)	4.5 - 5.5	TTL	-32 / 64	50	3.1	100	-40 to 85
74ABT126	Quad buffer/line driver (3-state)	4.5 - 5.5	TTL	-32 / 64	50	3.0	100	-40 to 85
74ABT162244	16-bit buffer/line driver with 30 Ohm termination resistors (3-state)	4.5 - 5.5	TTL	-32 / 12	50	3.2	100	-40 to 85
74ABT16240A	16-bit inverter/line driver (3-state)	4.5 - 5.5	TTL	-32 / 64	50	2.0	150	-40 to 85
74ABT16244A	16-bit buffer/line driver (3-state)	4.5 - 5.5	TTL	-32 / 64	50	2.1	150	-40 to 85
74ABT244	Octal buffer/line driver (3-state)	4.5 - 5.5	TTL	-32 / 64	50	2.9	100	-40 to 85
74AHC04	Hex inverter	2.0 - 5.5	CMOS	±8	50	3.0	60	-40 to 125
74AHC125	Quad buffer/line driver (3-state)	2.0 - 5.5	CMOS	±8	50	3.0	60	-40 to 125
74AHC126	Quad buffer/line driver (3-state)	2.0 - 5.5	CMOS	±8	50	3.3	60	-40 to 125
74AHC14	Hex inverter; Schmitt-trigger	2.0 - 5.5	CMOS	±8	50	3.2	60	-40 to 125
74AHC1G04	Single inverter	2.0 - 5.5	CMOS	±8	50	3.1	60	-40 to 125
74AHC1G07	Single buffer; open-drain	2.0 - 5.5	CMOS	±8	50	2.5	60	-40 to 125
74AHC1G125	Single buffer/line driver (3-state)	2.0 - 5.5	CMOS	±8	50	3.4	60	-40 to 125
74AHC1G126	Single buffer/line driver (3-state)	2.0 - 5.5	CMOS	±8	50	3.4	60	-40 to 125
74AHC1G14	Single inverter; Schmitt-trigger	2.0 - 5.5	CMOS	±8	50	3.2	60	-40 to 125
74AHC1G17	Single buffer with Schmitt-trigger inputs	2.0 - 5.5	CMOS	±8	50	3.2	60	-40 to 125
74AHC1GU04	Single inverter; unbuffered	2.0 - 5.5	CMOS	±8	50	2.6	60	-40 to 125
74AHC244	Octal buffer/line driver (3-state)	2.0 - 5.5	CMOS	±8	50	3.5	60	-40 to 125
74AHC2G125	Dual buffer/line driver (3-state)	2.0 - 5.5	CMOS	±8	50	3.4	60	-40 to 125
74AHC2G126	Dual buffer/line driver (3-state)	2.0 - 5.5	CMOS	±8	50	3.4	60	-40 to 125
74AHC2G241	Dual buffer/line driver (3-state)	2.0 - 5.5	CMOS	±8	50	3.4	60	-40 to 125
74AHC3G04	Triple inverter	2.0 - 5.5	CMOS	±8	50	3.1	60	-40 to 125
74AHC3G14	Triple inverter; Schmitt-trigger	2.0 - 5.5	CMOS	±8	50	3.2	60	-40 to 125
74AHC3GU04	Triple inverter; unbuffered	2.0 - 5.5	CMOS	±8	50	2.5	60	-40 to 125
74AHC541	Octal buffer/line driver (3-state)	2.0 - 5.5	CMOS	±8	50	3.5	60	-40 to 125
74AHC9541A	Octal buffer/line driver; Schmitt-trigger (3-state)	1.8 - 5.5	CMOS	±8	15	3.4	60	-40 to 125
74AHCT04	Hex inverter; TTL-enabled	4.5 - 5.5	TTL	±8	50	3.0	60	-40 to 125
74AHCT04A	Hex inverter; TTL-enabled	4.5 - 5.5	TTL	±8	15	3.1	60	-40 to 125
74AHCT07A	Hex buffer; open-drain; TTL-enabled	4.5 - 5.5	TTL	±8	15	4.0	60	-40 to 125
74AHCT125	Quad buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	50	3.0	60	-40 to 125
74AHCT126	Quad buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	50	3.0	60	-40 to 125
74AHCT14	Hex inverting; Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±8	50	3.4	60	-40 to 125
74AHCT14A	Hex inverter; Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±8	15	3.7	60	-40 to 125
74AHCT17A	Hex buffer; Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±8	15	3.2	60	-40 to 125
74AHCT1G04	Single inverter; TTL-enabled	4.5 - 5.5	TTL	±8	50	3.4	60	-40 to 125
74AHCT1G125	Single buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	50	3.4	60	-40 to 125
74AHCT1G126	Single buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	50	3.4	60	-40 to 125
74AHCT1G14	Single inverter; Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±8	50	4.1	60	-40 to 125
74AHCT1G17	Single buffer with Schmitt-trigger inputs; TTL-enabled	4.5 - 5.5	TTL	±8	50	4.1	60	-40 to 125
74AHCT240	Octal inverter/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	50	3.0	60	-40 to 125

Buffers / Inverters

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	Output Load CL (pF)	t _{pd} (ns)	f _{max} (MHz)	T _{amb} (°C)
74AHCT244	Octal buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	50	3.5	60	-40 to 125
74AHCT244A	Octal buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	15	3.5	60	-40 to 125
74AHCT2G125	Dual buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	50	3.4	60	-40 to 125
74AHCT2G126	Dual buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	50	3.4	60	-40 to 125
74AHCT2G241	Dual buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	50	3.4	60	-40 to 125
74AHCT3G04	Triple inverter; TTL-enabled	4.5 - 5.5	TTL	±8	50	3.0	60	-40 to 125
74AHCT3G14	Triple inverter; Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±8	50	4.1	60	-40 to 125
74AHCT541	Octal buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	50	3.5	60	-40 to 125
74AHCT541A	Octal buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	15	3.5	60	-40 to 125
74AHC04	Hex inverter; unbuffered	2.0 - 5.5	CMOS	±8	50	2.4	60	-40 to 125
74AHC05A	Hex inverter; Schmitt trigger; open-drain	2.0 - 5.5	CMOS	±16	15	8.5	10	-40 to 125
74AHC07A	Hex buffer; Schmitt-trigger; open-drain	1.8 - 5.5	CMOS	16	15	3.8	60	-40 to 125
74AHC14A	Hex inverter; Schmitt-trigger	1.8 - 5.5	CMOS	±16	15	3.2	60	-40 to 125
74AHC17A	Hex buffer; Schmitt-trigger	1.8 - 5.5	CMOS	±16	15	3.2	60	-40 to 125
74AHC244A	Octal buffer/line driver; Schmitt-trigger (3-state)	1.8 - 5.5	CMOS	±16	15	3.0	60	-40 to 125
74AHC541A	Octal buffer/line driver; Schmitt-trigger (3-state)	1.8 - 5.5	CMOS	±16	15	3.0	60	-40 to 125
74ALVC04	Hex inverter	1.65 - 3.6	TTL	±24	30	2.0	150	-40 to 85
74ALVC125	Quad buffer/line driver (3-state)	1.65 - 3.6	TTL	±24	30	1.8	145	-40 to 85
74ALVC14	Hex inverter; Schmitt-trigger	1.65 - 3.6	TTL	±24	30	2.4	150	-40 to 85
74ALVC16244	16-bit buffer/line driver (3-state)	1.2 - 3.6	TTL	±24	50	1.9	150	-40 to 85
74ALVC244	Octal buffer/line driver (3-state)	1.65 - 3.6	TTL	±24	30	2.9	130	-40 to 85
74ALVC541	Octal buffer/line driver (3-state)	1.65 - 3.6	TTL	±24	30	2.3	130	-40 to 85
74ALVCH162244	16-bit buffer/line driver with bus hold and 30 Ω termination resistors (3-state)	2.3 - 3.6	TTL	±12	30	2.7	150	-40 to 85
74ALVCH16244	16-bit buffer/line driver with bus hold (3-state)	1.2 - 3.6	TTL	±24	30	1.9	150	-40 to 85
74ALVCH162827	20-bit buffer/line driver with bus hold and 30 Ω termination resistors (3-state)	2.3 - 3.6	TTL	±12	30	2.9	150	-40 to 85
74ALVCH16825	18-bit buffer/line driver with bus hold (3-state)	2.3 - 3.6	TTL	±24	30	2.0	150	-40 to 85
74ALVCH16827	20-bit buffer/line driver with bus hold (3-state)	2.3 - 3.6	TTL	±24	30	2.0	150	-40 to 85
74ALVT16244	16-bit buffer/line driver with bus hold (3-state)	2.3 - 3.6	LVTTL	-32 / 64	50	1.5	200	-40 to 85
74ALVT162827	20-bit buffer/line driver with bus hold and 30 Ω termination resistors (3-state)	2.3 - 3.6	LVTTL	±12	50	2.2	75	-40 to 85
74ALVT16827	20-bit buffer/line driver with bus hold (3-state)	2.3 - 3.6	LVTTL	-32 / 64	50	1.3	200	-40 to 85
74AUP1G04	Single inverter	1.1 - 3.6	CMOS	±1.9	30	4.0	70	-40 to 125
74AUP1G06	Single inverter; open drain	1.1 - 3.6	CMOS	1.9	30	4.5	70	-40 to 125
74AUP1G07	Single buffer; open drain	1.1 - 3.6	CMOS	1.9	30	4.4	70	-40 to 125
74AUP1G125	Single buffer/line driver (3-state)	1.1 - 3.6	CMOS	±1.9	30	4.3	70	-40 to 125
74AUP1G126	Single buffer/line driver (3-state)	1.1 - 3.6	CMOS	±1.9	30	4.3	70	-40 to 125
74AUP1G14	Single inverter; Schmitt-trigger	1.1 - 3.6	CMOS	±1.9	30	4.7	70	-40 to 125
74AUP1G16	Single buffer	1.1 - 3.6	CMOS	±1.9	30	4.7	70	-40 to 125
74AUP1G240	Single inverter/line driver (3-state)	1.1 - 3.6	CMOS	±1.9	30	4.2	70	-40 to 125
74AUP1G34	Single buffer	1.1 - 3.6	CMOS	±1.9	30	3.9	70	-40 to 125
74AUP1GU04	Single inverter; unbuffered	1.1 - 3.6	CMOS	±1.9	30	2.3	70	-40 to 125
74AUP1T04	Single supply voltage-translating inverter	2.3 - 3.6	CMOS	±4	15	3.7	70	-40 to 125

Buffers / Inverters

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	Output Load CL (pF)	t _{pd} (ns)	f _{max} (MHz)	T _{amb} (°C)
74AUP1T14	Single supply voltage-translating inverter	2.3 - 3.6	CMOS	±4	15	3.7	70	-40 to 125
74AUP1T17	Single supply voltage-translating buffer	2.3 - 3.6	CMOS	±4	15	3.7	70	-40 to 125
74AUP1T50	Single supply voltage-translating buffer	2.3 - 3.6	CMOS	±4	15	3.7	70	-40 to 125
74AUP2G04	Dual inverter	1.1 - 3.6	CMOS	±1.9	30	4.0	70	-40 to 125
74AUP2G06	Dual inverter; open drain	1.1 - 3.6	CMOS	1.9	30	4.5	70	-40 to 125
74AUP2G07	Dual buffer; open drain	1.1 - 3.6	CMOS	1.9	30	4.4	70	-40 to 125
74AUP2G125	Dual buffer/line driver (3-state)	1.1 - 3.6	CMOS	+1.9	30	4.3	70	-40 to 125
74AUP2G126	Dual buffer/line driver (3-state)	1.1 - 3.6	CMOS	+1.9	30	4.3	70	-40 to 125
74AUP2G14	Dual inverter; Schmitt-trigger	1.1 - 3.6	CMOS	+1.9	30	4.7	70	-40 to 125
74AUP2G16	Dual buffer	1.1 - 3.6	CMOS	+1.9	30	4.7	70	-40 to 125
74AUP2G17	Dual buffer; Schmitt-trigger	1.1 - 3.6	CMOS	+1.9	30	7.8	70	-40 to 125
74AUP2G240	Dual inverter/line driver (3-state)	1.1 - 3.6	CMOS	+1.9	30	4.2	70	-40 to 125
74AUP2G241	Dual buffer/line driver (3-state)	1.1 - 3.6	CMOS	+ 1.9	30	4.3	70	-40 to 125
74AUP2G34	Dual buffer	1.1 - 3.6	CMOS	+1.9	30	3.9	70	-40 to 125
74AUP2GU04	Dual inverter; unbuffered	1.1 - 3.6	CMOS	+1.9	30	2.3	70	-40 to 125
74AUP3G04	Triple inverter	1.1 - 3.6	CMOS	+1.9	30	4.0	70	-40 to 125
74AUP3G07	Triple buffer; open-drain	1.1 - 3.6	CMOS	1.9	30	4.4	70	-40 to 125
74AUP3G14	Triple inverter; Schmitt-trigger	1.1 - 3.6	CMOS	+1.9	30	4.7	70	-40 to 125
74AUP3G16	Triple buffer	1.1 - 3.6	CMOS	+1.9	30	4.0	70	-40 to 125
74AUP3G17	Triple buffer; Schmitt-trigger	1.1 - 3.6	CMOS	+1.9	30	4.7	70	-40 to 125
74AUP3G34	Triple buffer	1.1 - 3.6	CMOS	+1.9	30	4.0	70	-40 to 125
74AVC9112	1-to-4 fan-out buffer	0.8 - 3.6	CMOS/LVTTL	±12	15	4.0	200	-40 to 125
74HC04	Hex inverter	2.0 - 6.0	CMOS	+5.2	50	7.0	36	-40 to 125
74HC05	Hex inverter; open drain	2.0 - 6.0	CMOS	5.2	50	11	36	-40 to 125
74HC125	Quad buffer/line driver (3-state)	2.0 - 6.0	CMOS	+7.8	50	9.0	36	-40 to 125
74HC126	Quad buffer/line driver (3-state)	2.0 - 6.0	CMOS	+7.8	50	9.0	36	-40 to 125
74HC14	Hex inverter; Schmitt-trigger	2.0 - 6.0	CMOS	+5.2	50	12	36	-40 to 125
74HC1G04	Single inverter	2.0 - 6.0	CMOS	+2.6	50	7.0	36	-40 to 125
74HC1G125	Single buffer/line driver (3-state)	2.0 - 6.0	CMOS	+2.6	50	9.0	36	-40 to 125
74HC1G126	Single buffer/line driver (3-state)	2.0 - 6.0	CMOS	+2.6	50	9.0	36	-40 to 125
74HC1G14	Single inverter; Schmitt-trigger	2.0 - 6.0	CMOS	+2.6	50	10	36	-40 to 125
74HC1GU04	Single inverter; unbuffered	2.0 - 6.0	CMOS	+ 2.6	50	5.0	36	-40 to 125
74HC240	Octal inverter/line driver (3-state)	2.0 - 6.0	CMOS	+7.8	50	9.0	36	-40 to 125
74HC241	Octal buffer/line driver (3-state)	2.0 - 6.0	CMOS	+7.8	50	7.0	36	-40 to 125
74HC244	Octal buffer/line driver (3-state)	2.0 - 6.0	CMOS	+7.8	50	9.0	36	-40 to 125
74HC2G04	Dual inverter	2.0 - 6.0	CMOS	±5.2	50	8.0	36	-40 to 125
74HC2G125	Dual buffer/line driver (3-state)	2.0 - 6.0	CMOS	±5.2	50	10	36	-40 to 125
74HC2G14	Dual inverter; Schmitt-trigger	2.0 - 6.0	CMOS	±5.2	50	16	36	-40 to 125
74HC2G16	Dual buffer	2.0 - 6.0	CMOS	±5.2	50	9.0	36	-40 to 125
74HC2G17	Dual buffer; Schmitt-trigger	2.0 - 6.0	CMOS	±5.2	50	12	36	-40 to 125
74HC2G34	Dual buffer	2.0 - 6.0	CMOS	±5.2	50	9.0	36	-40 to 125

Buffers / Inverters

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	Output Load CL (pF)	t _{pd} (ns)	f _{max} (MHz)	T _{amb} (°C)
74HC2GU04	Single inverter; unbuffered	2.0 - 6.0	CMOS	±2.6	50	5.0	36	-40 to 125
74HC365	Hex buffer/line driver (3-state)	2.0 - 6.0	CMOS	±7.8	50	9.0	36	-40 to 125
74HC366	Hex inverter/line driver (3-state)	2.0 - 6.0	CMOS	±7.8	50	10	36	-40 to 125
74HC367	Hex buffer/line driver (3-state)	2.0 - 6.0	CMOS	±7.8	50	8.0	36	-40 to 125
74HC368	Hex inverter/line driver (3-state)	2.0 - 6.0	CMOS	±7.8	50	9.0	36	-40 to 125
74HC3G04	Triple inverter	2.0 - 6.0	CMOS	±5.2	50	8.0	36	-40 to 125
74HC3G06	Triple inverter; open drain	2.0 - 6.0	CMOS	5.2	50	9.0	36	-40 to 125
74HC3G07	Triple buffer; open drain	2.0 - 6.0	CMOS	5.2	50	9.0	36	-40 to 125
74HC3G14	Triple inverter; Schmitt-trigger	2.0 - 6.0	CMOS	±5.2	50	16	36	-40 to 125
74HC3G16	Triple buffer	2.0 - 6.0	CMOS	±5.2	50	9.0	36	-40 to 125
74HC3G34	Triple buffer	2.0 - 6.0	CMOS	±5.2	50	9.0	36	-40 to 125
74HC3GU04	Triple inverter; unbuffered	2.0 - 6.0	CMOS	±5.2	50	6.0	36	-40 to 125
74HC540	Octal inverter/line driver (3-state)	2.0 - 6.0	CMOS	±7.8	50	9.0	36	-40 to 125
74HC541	Octal buffer/line driver (3-state)	2.0 - 6.0	CMOS	±7.8	50	10	36	-40 to 125
74HC7014	Hex buffer; precision Schmitt-trigger	2.0 - 6.0	CMOS	±5.2	50	27	36	-40 to 125
74HC7540	Octal inverter/line driver; Schmitt-trigger (3-State)	2.0 - 6.0	CMOS	±7.8	15	11	36	-40 to 125
74HC7541	Octal buffer/line driver; Schmitt-trigger (3-State)	2.0 - 6.0	CMOS	±7.8	15	10	36	-40 to 125
74HC9114	9-bit inverter; Schmitt-trigger; open-drain (3-state)	2.0 - 6.0	CMOS	5.2	15	12	36	-40 to 125
74HC9115	9-bit buffer; Schmitt-trigger; open-drain (3-state)	2.0 - 6.0	CMOS	5.2	15	12	36	-40 to 125
74HCT04	Hex inverter; TTL-enabled	4.5 - 5.5	TTL	±4	50	8.0	36	-40 to 125
74HCT125	Quad buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±6	50	12	36	-40 to 125
74HCT126	Quad buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±6	50	11	36	-40 to 125
74HCT14	Hex inverter; Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±4	50	17	36	-40 to 125
74HCT1G04	Single inverter; TTL-enabled	4.5 - 5.5	TTL	±2	50	8.0	36	-40 to 125
74HCT1G125	Single buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±2	50	10	36	-40 to 125
74HCT1G126	Single buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±2	50	10	36	-40 to 125
74HCT1G14	Single inverter; Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±2	50	15	36	-40 to 125
74HCT240	Octal inverter/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±6	50	9.0	36	-40 to 125
74HCT241	Octal buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±6	50	11	36	-40 to 125
74HCT244	Octal buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±6	50	11	36	-40 to 125
74HCT2G04	Dual inverter; TTL-enabled	4.5 - 5.5	TTL	±4	50	10	36	-40 to 125
74HCT2G125	Dual buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±4	50	12	36	-40 to 125
74HCT2G14	Dual inverter; Schmitt-trigger; TTL-enabled	4.5 to 5.5	TTL	±4	50	21	36	-40 to 125
74HCT2G16	Dual buffer; TTL-enabled	4.5 - 5.5	TTL	±4	50	10	32	-40 to 125
74HCT2G17	Dual buffer; Schmitt-trigger; TTL-enabled	4.5 to 5.5	TTL	±4	50	21	36	-40 to 125
74HCT2G34	Dual buffer; TTL-enabled	4.5 - 5.5	TTL	±4	50	10	32	-40 to 125
74HCT365	Hex buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±6	50	11	36	-40 to 125
74HCT366	Hex inverter/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±6	50	11	36	-40 to 125
74HCT367	Hex buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±6	50	11	36	-40 to 125
74HCT368	Hex inverter/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±6	50	11	36	-40 to 125
74HCT3G04	Triple inverter; TTL-enabled	4.5 - 5.5	TTL	±4	50	10	36	-40 to 125

Buffers / Inverters

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	Output Load CL (pF)	t _{pd} (ns)	f _{max} (MHz)	T _{amb} (°C)
74HCT3G06	Triple inverter; open drain; TTL-enabled	4.5 - 5.5	TTL	4	50	9.0	36	-40 to 125
74HCT3G07	Triple buffer; open drain; TTL-enabled	4.5 - 5.5	TTL	4	50	9.0	36	-40 to 125
74HCT3G14	Triple inverter Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±4	50	21	36	-40 to 125
74HCT3G34	Triple buffer; TTL-enabled	4.5 - 5.5	TTL	±4	50	10	36	-40 to 125
74HCT540	Octal inverter/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±6	50	11	36	-40 to 125
74HCT541	Octal buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±6	50	12	36	-40 to 125
74HCT7540	Octal inverter/line driver Schmitt-trigger; TTL-enabled (3-State)	4.5 - 5.5	TTL	±6	15	16	36	-40 to 125
74HCT7541	Octal buffer/line driver Schmitt-trigger; TTL-enabled (3-State)	4.5 - 5.5	TTL	±6	15	16	36	-40 to 125
74HCT9114	9-bit inverter Schmitt-trigger; open-drain; TTL-enabled (3-state)	4.5 - 5.5	TTL	4	15	13	36	-40 to 125
74HCU04	Hex inverter; unbuffered	2.0 - 6.0	CMOS	±5.2	50	5.0	36	-40 to 125
74LV04	Hex inverter	1.0 - 5.5	CMOS	±12	50	6.0	30	-40 to 125
74LV04AT	Hex buffer	4.5 - 5.5	TTL	±12	15	3.3	60	-40 to 125
74LV05A	Hex inverter; open-drain	2.0 - 5.5	CMOS	12	15	2.9	60	-40 to 125
74LV07A	Hex buffer; open-drain	2.0 - 5.5	CMOS	16	15	3.6	60	-40 to 125
74LV07AT	Hex buffer; open-drain; TTL-enabled	4.5 - 5.5	TTL	16	15	3.5	60	-40 to 125
74LV14	Hex inverter; Schmitt-trigger	1.0 - 5.5	TTL	±12	50	13	30	-40 to 125
74LV14A	Hex inverter; Schmitt-trigger	2.0 - 5.5	CMOS	±12	15	3.4	60	-40 to 125
74LV17A	Hex buffer; Schmitt-trigger	2.0 - 5.5	CMOS	±12	15	3.4	60	-40 to 125
74LV1T04	Single supply translating inverter	1.6 - 5.5	CMOS	±8	15	6.2	60	-40 to 125
74LV1T34	Single supply translating buffer	1.6 - 5.5	CMOS	±8	15	6.3	60	-40 to 125
74LV1T125	Single supply translating buffer / line driver (3-state)	1.6 - 5.5	CMOS	±8	15	6.5	60	-40 to 125
74LV1T126	Single supply translating buffer / line driver (3-state)	1.6 - 5.5	CMOS	±8	15	6.5	60	-40 to 125
74LV244	Octal buffer/line driver (3-state)	1.0 - 5.5	CMOS	±16	50	8.0	30	-40 to 125
74LV244A	Octal buffer/line driver (3-state)	2.0 - 5.5	CMOS	±16	15	2.9	60	-40 to 125
74LV244AT	Octal buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±16	15	2.8	60	-40 to 125
74LV540A	Octal buffer/line driver (3-state); inverting	1.65 - 5.5	CMOS/LVTTL	±16	15	3.1	60	-40 to 125
74LV541A	Octal buffer/line driver (3-state)	2.0 - 5.5	CMOS	±16	15	2.9	60	-40 to 125
74LV541AT	Octal buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±16	15	2.8	60	-40 to 125
74LVC04A	Hex inverter	1.65 - 5.5	CMOS/LVTTL	±24	50	2.0	175	-40 to 125
74LVC06A	Hex inverter; open drain	1.65 - 5.5	CMOS/LVTTL	32	50	2.2	175	-40 to 125
74LVC07A	Hex buffer; open drain	1.65 - 5.5	CMOS/LVTTL	32	50	2.2	175	-40 to 125
74LVC125A	Quad buffer/line driver (3-state)	1.2 - 3.6	CMOS/LVTTL	±24	50	2.4	175	-40 to 125
74LVC126A	Quad buffer/line driver (3-state)	1.2 - 3.6	CMOS/LVTTL	±24	50	2.4	175	-40 to 125
74LVC14A	Hex inverter; Schmitt-trigger	1.2 - 3.6	CMOS/LVTTL	±24	50	3.2	175	-40 to 125
74LVC162244A	16-bit buffer/line driver with 30 Ω termination resistors (3-state)	1.2 - 3.6	CMOS/LVTTL	±24	50	2.9	175	-40 to 125
74LVC16240A	16-bit inverter/line driver (3-state)	1.2 - 3.6	CMOS/LVTTL	±24	50	2.7	175	-40 to 125
74LVC16241A	16-bit buffer/line driver (3-state)	1.2 - 3.6	CMOS/LVTTL	±24	50	2.9	175	-40 to 125
74LVC16244A	16-bit buffer/line driver (3-state)	1.2 - 3.6	CMOS/LVTTL	±24	50	3.0	175	-40 to 125
74LVC1G04	Single inverter	1.65 - 5.5	CMOS/LVTTL	±32	50	2.0	175	-40 to 125
74LVC1G06	Single inverter; open drain	1.65 - 5.5	CMOS/LVTTL	32	50	2.3	175	-40 to 125
74LVC1G07	Single buffer; open drain	1.65 - 5.5	CMOS/LVTTL	32	50	2.2	175	-40 to 125

Buffers / Inverters

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	Output Load CL (pF)	t _{pd} (ns)	f _{max} (MHz)	T _{amb} (°C)
74LVC1G125	Single buffer/line driver; TTL-enabled (3-state)	1.65 - 5.5	CMOS/LVTTL	±32	50	2.1	175	-40 to 125
74LVC1G126	Single buffer/line driver; TTL-enabled (3-state)	1.65 - 5.5	CMOS/LVTTL	±32	50	2.0	175	-40 to 125
74LVC1G14	Single inverter; Schmitt-trigger	1.65 - 5.5	CMOS/LVTTL	±32	50	3.0	175	-40 to 125
74LVC1G16	Single buffer	1.65 - 5.5	CMOS/LVTTL	±24	50	2.0	175	-40 to 125
74LVC1G17	Single buffer; Schmitt-trigger	1.65 - 5.5	CMOS/LVTTL	±32	50	3.0	175	-40 to 125
74LVC1G240	Single inverter/line driver (3-state)	1.65 - 5.5	CMOS/LVTTL	±32	50	2.1	175	-40 to 125
74LVC1G34	Single buffer	1.65 - 5.5	CMOS/LVTTL	±24	50	2.0	175	-40 to 125
74LVC1GU04	Single inverter; unbuffered	1.65 - 5.5	CMOS/LVTTL	±32	50	1.6	175	-40 to 125
74LVC2244A	Octal buffer/line driver with 30 Ω termination resistors (3-state)	1.2 - 3.6	CMOS/LVTTL	±12	50	3.1	175	-40 to 125
74LVC240A	Octal inverter/line driver (3-state)	1.2 - 3.6	CMOS/LVTTL	±24	50	3.5	175	-40 to 125
74LVC244A	Octal buffer/line driver (3-state)	1.2 - 3.6	CMOS/LVTTL	±24	50	2.8	175	-40 to 125
74LVC2G04	Dual inverter	1.65 - 5.5	CMOS/LVTTL	±24	50	2.7	175	-40 to 125
74LVC2G06	Dual inverter; open drain	1.65 - 5.5	CMOS/LVTTL	32	50	2.3	175	-40 to 125
74LVC2G07	Dual buffer; open drain	1.65 - 5.5	CMOS/LVTTL	32	50	2.6	175	-40 to 125
74LVC2G125	Dual buffer/line driver; TTL-enabled (3-state)	1.65 - 5.5	CMOS/LVTTL	±32	50	2.3	175	-40 to 125
74LVC2G126	Dual buffer/line driver; TTL-enabled (3-state)	1.65 - 5.5	CMOS/LVTTL	±32	50	2.4	175	-40 to 125
74LVC2G14	Dual inverter; Schmitt-trigger	1.65 - 5.5	CMOS/LVTTL	±32	50	3.9	175	-40 to 125
74LVC2G16	Dual buffer	1.65 - 5.5	CMOS/LVTTL	±24	50	2.0	175	-40 to 125
74LVC2G17	Dual buffer; Schmitt-trigger	1.65 - 5.5	CMOS/LVTTL	±32	50	3.6	175	-40 to 125
74LVC2G240	Dual inverter/line driver (3-state)	1.65 - 5.5	CMOS/LVTTL	±32	50	2.5	175	-40 to 125
74LVC2G241	Dual buffer/line driver (3-state)	1.65 - 5.5	CMOS/LVTTL	±32	50	2.6	175	-40 to 125
74LVC2G34	Dual buffer	1.65 - 5.5	CMOS/LVTTL	±32	50	2.2	175	-40 to 125
74LVC2GU04	Dual inverter; unbuffered	1.65 - 5.5	CMOS/LVTTL	±32	50	2.3	175	-40 to 125
74LVC3G04	Triple inverter	1.65 - 5.5	CMOS/LVTTL	±32	50	2.7	175	-40 to 125
74LVC3G06	Triple inverter; open drain	1.65 - 5.5	CMOS/LVTTL	32	50	2.0	175	-40 to 125
74LVC3G07	Triple buffer; open drain	1.65 - 5.5	CMOS/LVTTL	32	50	2.1	175	-40 to 125
74LVC3G14	Triple inverter; Schmitt-trigger	1.65 - 5.5	CMOS/LVTTL	±32	50	3.2	175	-40 to 125
74LVC3G16	Triple buffer	1.65 - 5.5	CMOS/LVTTL	±24	50	2.0	175	-40 to 125
74LVC3G17	Triple buffer; Schmitt-trigger	1.65 - 5.5	CMOS/LVTTL	±32	50	3.6	175	-40 to 125
74LVC3G34	Triple buffer	1.65 - 5.5	CMOS/LVTTL	±32	50	2.2	175	-40 to 125
74LVC3GU04	Triple inverter; unbuffered	1.65 - 5.5	CMOS/LVTTL	±32	50	2.3	175	-40 to 125
74LVC541A	Octal buffer/line driver (3-state)	1.2 - 3.6	CMOS/LVTTL	±24	50	3.3	175	-40 to 125
74LVCH162244A	16-bit buffer/line driver with bus hold and 30 Ω termination resistors (3-state)	1.2 - 3.6	CMOS/LVTTL	±12	50	2.9	175	-40 to 125
74LVCH16244A	16-bit buffer/line driver with bus hold (3-state)	1.2 - 3.6	CMOS/LVTTL	±24	50	3.0	175	-40 to 125
74LVCH16541A	16-bit buffer/line driver with bus hold (3-state)	1.2 - 3.6	CMOS/LVTTL	±24	50	2.7	175	-40 to 125
74LVCH244A	Octal buffer/line driver with bus hold (3-state)	1.2 - 3.6	CMOS/LVTTL	±24	50	2.8	175	-40 to 125
74LVCU04A	Hex inverter; unbuffered	1.2 - 3.6	CMOS/LVTTL	±24	50	2.0	175	-40 to 125
74LVT04	Hex inverter	2.7 - 3.6	TTL	-20 / 32	50	2.6	150	-40 to 85
74LVT125	Quad buffer/line driver with bus hold (3-state)	2.7 - 3.6	TTL	-32 / 64	50	2.9	150	-40 to 85
74LVT126	Quad buffer/line driver with bus hold (3-state)	2.7 - 3.6	TTL	-32 / 64	50	2.4	150	-40 to 85
74LVT14	Hex inverter; Schmitt-trigger	2.7 - 3.6	TTL	-32 / 64	50	3.8	150	-40 to 85

Buffers / Inverters

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	Output Load CL (pF)	t _{pd} (ns)	f _{max} (MHz)	T _{amb} (°C)
74LVT162240A	16-bit inverter/line driver with bus hold and 30 Ω termination (3-state)	2.7 - 3.6	TTL	±12	50	2.6	150	-40 to 85
74LVT162244B	16-bit buffer/line driver with bus hold and 30 Ω termination resistors (3-state)	2.7 - 3.6	TTL	±12	50	2.8	150	-40 to 85
74LVT16240A	16-bit inverter/line driver with bus hold (3-state)	2.7 - 3.6	TTL	-32 / 64	50	2.0	150	-40 to 85
74LVT16244B	16-bit buffer/line driver with bus hold (3-state)	2.7 - 3.6	TTL	-32 / 64	50	1.8	150	-40 to 85
74LVT2241	Octal buffer/line driver with bus hold and 30 Ω termination resistors (3-state)	2.7 - 3.6	TTL	±12	50	3.3	150	-40 to 85
74LVT2244	Octal buffer/line driver with bus hold and 30 Ω termination resistors (3-state)	2.7 - 3.6	TTL	±12	50	2.9	150	-40 to 85
74LVT240	Octal inverter/line driver with bus hold (3-state)	2.7 - 3.6	TTL	-32 / 64	50	2.5	150	-40 to 85
74LVT241	Octal buffer/line driver with bus hold (3-state)	2.7 - 3.6	TTL	-32 / 64	50	2.8	150	-40 to 85
74LVT244A	Octal buffer/line driver with bus hold (3-state)	2.7 - 3.6	TTL	-32 / 64	50	2.6	150	-40 to 85
74LVT244B	Octal buffer/line driver with bus hold (3-state)	2.7 - 3.6	TTL	-32 / 64	50	2.0	150	-40 to 85
74LVTH125	Quad buffer/line driver with bus hold (3-state)	2.7 - 3.6	TTL	-32 / 64	50	2.9	150	-40 to 85
74LVTH16244B	16-bit buffer/line driver with bus hold (3-state)	2.7 - 3.6	TTL	-32 / 64	50	1.8	150	-40 to 85
74LVTH244A	Octal buffer/line driver with bus hold (3-state)	2.7 - 3.6	TTL	-32 / 64	50	2.6	150	-40 to 85
74LVTH244B	Octal buffer/line driver with bus hold (3-state)	2.7 - 3.6	TTL	-32 / 64	50	2.0	150	-40 to 85
74LVTN16244B	16-bit buffer/line driver (3-state)	2.7 - 3.6	TTL	-32 / 64	50	1.8	150	-40 to 85
74VHC125	Quad buffer/line driver (3-state)	2.0 - 5.5	CMOS	±8	50	3.0	60	-40 to 125
74VHC126	Quad buffer/line driver (3-state)	2.0 - 5.5	CMOS	±8	50	3.3	60	-40 to 125
74VHC14	Hex inverter; Schmitt-trigger	2.0 - 5.5	CMOS	±8	50	3.2	60	-40 to 125
74VHC244	Octal inverter/line driver (3-state)	2.0 - 5.5	CMOS	±8	50	3.5	60	-40 to 125
74VHC541	Octal buffer/line driver (3-state)	2.0 - 5.5	CMOS	±8	50	3.5	60	-40 to 125
74VHCT125	Quad buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	50	3.0	60	-40 to 125
74VHCT126	Quad buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	50	3.0	60	-40 to 125
74VHCT14	Hex inverter; Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±8	50	4.1	60	-40 to 125
74VHCT244	Octal inverter/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	50	5.0	60	-40 to 125
74VHCT541	Octal buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	50	3.5	60	-40 to 125
HEF40244B	Octal buffer/line driver (3-state)	3.0 - 15.0	CMOS	-62 / 45	50	30	10	-40 to 125
HEF4049B	Hex inverter/line driver	3.0 - 15.0	CMOS	-3 / 20	50	20	10	-40 to 125
HEF4050B	Hex buffer/line driver	3.0 - 15.0	CMOS	-3 / 20	50	40	10	-40 to 125
HEF4069UB	Hex inverter; unbuffered	3.0 - 15.0	CMOS	±3.4	50	15	10	-40 to 125
XC7SET04	Single inverter; TTL-enabled	4.5 - 5.5	TTL	±8	50	3.5	60	-40 to 125
XC7SET125	Single buffer/line driver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	50	3.4	60	-40 to 125
XC7SET14	Single inverter; Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±8	50	4.1	60	-40 to 125
XC7SH04	Single inverter	2.0 - 5.5	CMOS	±8	50	3.5	60	-40 to 125
XC7SH125	Single buffer/line driver (3-state)	2.0 - 5.5	CMOS	±8	50	3.4	60	-40 to 125
XC7SH14	Single inverter; Schmitt-trigger	2.0 - 5.5	CMOS	±8	50	3.2	60	-40 to 125
XC7SHU04	Single inverter; unbuffered	2.0 - 5.5	CMOS	±8	50	3.5	60	-40 to 125
XC7WH126	Dual buffer/line driver (3-state)	2.0 - 5.5	CMOS	±8	50	3.4	60	-40 to 125
XC7WH14	Triple inverter; Schmitt-trigger	2.0 - 5.5	CMOS	±8	50	3.2	60	-40 to 125
XC7WT14	Triple inverter; Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±8	50	4.1	60	-40 to 125

Transceivers

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Number of bits	f _{max} (MHz)	T _{VV} (°C)
74ABT162245A	16-bit transceiver with 30 ohm termination resistors (3-state)	4.5 - 5.5	TTL	-32 / 12	3.0	16	100	-40 to 85
74ABT16245B	16-bit transceiver (3-state)	4.5 - 5.5	TTL	-32 / 64	2.3	16	150	-40 to 85
74ABT245	Octal transceiver (3-state)	4.5 - 5.5	TTL	-32 / 64	2.9	8	100	-40 to 85
74ABTH162245A	16-bit transceiver with bus hold and 30 ohm termination resistors (3-state)	4.5 - 5.5	TTL	-32 / 12	3.0	16	80	-40 to 85
74AHC245	Octal transceiver (3-state)	2.0 - 5.5	CMOS	±8	3.5	8	60	-40 to 125
74AHCT245	Octal transceiver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	5.0	8	60	-40 to 125
74AHCT245A	Octal transceiver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	3.0	8	60	-40 to 125
74AHCV245A	Octal transceiver; Schmitt-trigger (3-state)	1.8 - 5.5	CMOS	±16	3.2	8	60	-40 to 125
74ALVC16245	16-bit transceiver (3-state)	1.65 - 3.6	TTL	±24	1.9	16	150	-40 to 85
74ALVC245	Octal transceiver (3-state)	1.65 - 3.6	TTL	±24	2.3	8	130	-40 to 85
74ALVCH162245	16-bit transceiver with bus hold and 30 Ω termination resistors (3-state)	1.65 - 3.6	TTL	±12	2.4	16	150	-40 to 85
74ALVCH16245	16-bit transceiver with bus hold (3-state)	1.65 - 3.6	TTL	±24	1.9	16	150	-40 to 85
74ALVCH162601	18-bit universal bus transceiver with bus hold and 30 Ω termination resistors; positive-edge trigger (3-state)	1.65 - 3.6	TTL	±12	3.1	18	150	-40 to 85
74ALVCH16500	18-bit universal bus transceiver with bus hold; negative edge trigger (3-state)	1.65 - 3.6	TTL	±24	2.9	18	150	-40 to 85
74ALVCH16501	18-bit universal bus transceiver with bus hold; positive edge trigger (3-state)	1.65 - 3.6	TTL	±24	2.8	18	150	-40 to 85
74ALVCH16543	16-bit registered transceiver with bus hold (3-state)	1.65 - 3.6	TTL	±24	3.8	16	150	-40 to 85
74ALVCH16600	18-bit universal bus transceiver with bus hold; negative edge trigger (3-state)	1.65 - 3.6	TTL	±24	2.8	18	150	-40 to 85
74ALVCH16601	18-bit universal bus transceiver with bus hold; positive edge trigger (3-state)	1.65 - 3.6	TTL	±24	2.8	18	150	-40 to 85
74ALVCH16646	16-bit registered transceiver with bus hold (3-state)	1.65 - 3.6	TTL	±24	2.6	16	150	-40 to 85
74ALVCH16652	16-bit registered transceiver with bus hold (3-state)	1.65 - 3.6	TTL	±24	2.6	16	150	-40 to 85
74ALVCH16952	16-bit registered transceiver with bus hold (3-state)	1.65 - 3.6	TTL	±24	3.2	16	150	-40 to 85
74ALVT162245	16-bit transceiver with bus hold and 30 Ω termination resistors (3-state)	2.3 - 3.6	TTL	±12	2.3	16	75	-40 to 85
74HC245	Octal transceiver (3-state)	2.0 - 6.0	CMOS	±7.8	7.0	8	36	-40 to 125
74HCT245	Octal transceiver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±6	10	8	36	-40 to 125
74LV245	Octal transceiver (3-state)	1.0 - 5.5	TTL	±16	7.0	8	30	-40 to 125
74LV245A	Octal transceiver (3-state)	2.0 - 5.5	CMOS	±16	3	8	60	-40 to 125
74LV245AT	Octal transceiver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±16	3	8	60	-40 to 125
74LVC162245A	16-bit transceiver with 30 Ω termination resistors (3-state)	1.2 - 3.6	CMOS/ LVTTTL	±12	3.3	16	175	-40 to 125
74LVC16245A	16-bit transceiver (3-state)	1.2 - 3.6	CMOS/ LVTTTL	±24	3.0	16	175	-40 to 125
74LVC2245A	Octal transceiver with 30 Ω termination resistors (3-state)	1.2 - 3.6	CMOS/ LVTTTL	±12	3.3	8	175	-40 to 125
74LVC245A	Octal transceiver (3-state)	1.2 - 3.6	CMOS/ LVTTTL	±24	2.9	8	175	-40 to 125
74LVCH162245A	16-bit transceiver with bus hold and 30 Ω termination resistors (3-state)	1.2 - 3.6	CMOS/ LVTTTL	±12	3.3	16	175	-40 to 125
74LVCH16245A	16-bit transceiver with bus hold (3-state)	1.2 - 3.6	CMOS/ LVTTTL	±24	3.0	16	175	-40 to 125
74LVCH245A	Octal transceiver with bus hold (3-state)	1.2 - 3.6	CMOS/ LVTTTL	±24	2.9	8	175	-40 to 125
74LVT162245B	16-bit transceiver with bus hold and 30 Ω termination resistors (3-state)	2.7 - 3.6	TTL	±12	2.5	16	150	-40 to 85
74LVT16245B	16-bit transceiver with bus hold (3-state)	2.7 - 3.6	TTL	-32 / 64	1.9	16	150	-40 to 85
74LVT16543A	16-bit registered transceiver with bus hold (3-state)	2.7 - 3.6	TTL	-32 / 64	2.2	16	150	-40 to 85

Transceivers

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Number of bits	f _{max} (MHz)	T _{VV} (°C)
74LVT16543A	16-bit registered transceiver with bus hold (3-state)	2.7 - 3.6	TTL	-32 / 64	2	16	150	-40 to 85
74LVT2245	Octal transceiver with bus hold and 30 Ω termination resistors (3-state)	2.7 - 3.6	TTL	±12	3.2	8	150	-40 to 85
74LVT245	Octal transceiver (3-state)	2.7 - 3.6	TTL	-32 / 64	2.4	8	150	-40 to 85
74LVT245B	Octal transceiver (3-state)	2.7 - 3.6	TTL	-32 / 64	2	8	150	-40 to 85
74LVT640	Octal transceiver with bus hold; inverting (3-state)	2.7 - 3.6	TTL	-32 / 64	2.4	8	150	-40 to 85
74LVTH16245B	16-bit transceiver with bus hold (3-state)	2.7 - 3.6	TTL	-32 / 64	1.9	16	150	-40 to 85
74LVTH2245	Octal transceiver with bus hold and 30 Ω termination resistors (3-state)	2.7 - 3.6	TTL	±12	3.2	8	150	-40 to 85
74LVTN16245B	16-bit transceiver (3-state)	2.7 - 3.6	TTL	-32 / 64	1.9	16	150	-40 to 85
74VHC245	Octal transceiver (3-state)	2.0 - 5.5	CMOS	±8	3.5	8	60	-40 to 125
74VHCT245	Octal transceiver; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	5.0	8	60	-40 to 125

AND gates

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Output Load C _L (typ) (pF)	f _{max} (MHz)	Number of bits	T _{amb} (°C)
74ABT08	Quad 2-input AND gate	4.5 - 5.5	TTL	-15 / 20	2.4	50	100	4	-40 to 85
74AHC08	Quad 2-input AND gate	2.0 - 5.5	CMOS	±8	3.5	50	60	4	-40 to 125
74AHC1G08	Single 2-input AND gate	2.0 - 5.5	CMOS	±8	3.2	50	60	1	-40 to 125
74AHC1G09	Single 2-input AND gate; open drain	2.0 - 5.5	CMOS	±8	3.2	50	60	1	-40 to 125
74AHC2G08	Dual 2-input AND gate	2.0 - 5.5	CMOS	±8	3.2	50	60	2	-40 to 125
74AHCT08	Quad 2-input AND gate; TTL-enabled	4.5 - 5.5	TTL	±8	5.0	50	60	4	-40 to 125
74AHCT1G08	Single 2-input AND gate; TTL-enabled	4.5 - 5.5	TTL	±8	3.6	50	60	1	-40 to 125
74AHCT2G08	Dual 2-Input AND gate; TTL-enabled	4.5 - 5.5	TTL	±8	3.6	50	60	2	-40 to 125
74ALVC08	Quad 2-input AND gate	1.65 - 3.6	CMOS/ LVTTTL	±24	2.0	50	145	4	-40 to 85
74AUP1T08	Single supply 2-input voltage-translating AND gate	2.3 - 3.6	CMOS	±4	3.8	15	70	1	-40 to 125
74AUP2G08	Dual 2-input AND gate	1.1 - 3.6	CMOS	±1.9	8.2	30	70	2	-40 to 125
74AXP1G08	Single 2-input AND gate	0.7 - 2.75	CMOS	±4.5	2.6	5	70	1	-40 to 85
74AXP1G09	Single 2-input AND gate with open-drain output	0.7 - 2.75	CMOS	±4.5	2.6	5	70	1	-40 to 85
74AXP1G11	Single 3-input AND gate	0.7 - 2.75	CMOS	±4.5	2.6	5	70	1	-40 to 85
74HC08	Quad 2-input AND gate	2.0 - 6.0	CMOS	±5.2	7.0	50	36	4	-40 to 125
74HC11	Triple 3-input AND gate	2.0 - 6.0	CMOS	±5.2	10	50	36	3	-40 to 125
74HC1G08	Single 2-input AND gate	2.0 - 6.0	CMOS	±5.2	7.0	50	36	1	-40 to 125
74HC21	Dual 4-input AND gate	2.0 - 6.0	CMOS	±5.2	10	50	36	2	-40 to 125
74HC2G08	Dual 2-input AND gate	2.0 - 6.0	CMOS	±5.2	9.0	50	36	2	-40 to 125
74HCT08	Quad 2-input AND gate; TTL-enabled	4.5 - 5.5	TTL	±4	11	50	36	4	-40 to 125
74HCT11	Triple 3-input AND gate	4.5 - 5.5	TTL	±4	11	50	36	3	-40 to 125
74HCT1G08	Single 2-input AND gate; TTL-enabled	4.5 - 5.5	TTL	±2	11	50	36	1	-40 to 125
74HCT2G08	Dual 2-Input AND gate; TTL-enabled	4.5 - 5.5	TTL	±4	14	50	36	2	-40 to 125
74LV08	Quad 2-input AND gate	1.0 - 5.5	TTL	±12	7.0	50	30	4	-40 to 125
74LV08A	Quad 2-input AND gate	2.0 - 5.5	CMOS	±12	4.3	15	45	4	-40 to 125
74LV1T08	Single supply 2-input translating AND gate	1.6 - 5.5	CMOS	±8	6.5	15	60	1	-40 to 125
74LVC08A	Quad 2-input AND gate	1.2 - 3.6	CMOS / LVTTTL	±24	2.1	50	150	4	-40 to 125
74LVC11	Triple 3-input AND gate	1.2 - 3.6	CMOS / LVTTTL	±24	3.7	50	150	3	-40 to 125
74LVC1G08	Single 2-input AND gate	1.65 - 5.5	CMOS / LVTTTL	±24	2.1	50	150	1	-40 to 125
74LVC1G11	Single 3-input AND gate	1.65 - 5.5	CMOS / LVTTTL	±24	2.6	50	150	1	-40 to 125
74LVC2G08	Dual 2-input AND gate	1.65 - 5.5	CMOS / LVTTTL	±24	2.1	50	150	2	-40 to 125
74LVT08	Quad 2-input AND gate	2.7 - 3.6	TTL	-20 / 32	3.4	50	150	4	-40 to 85
74VHC08	Quad 2-input AND gate	2.0 - 5.5	CMOS	±8	3.5	50	60	4	-40 to 125
74VHCT08	Quad 2-input AND gate; TTL-enabled	4.5 - 5.5	TTL	±8	5.0	50	60	4	-40 to 125
HEF4073B	Triple 3-input AND gate	3.0 - 15	CMOS	±2.4	20	50	10	3	-40 to 85
HEF4081B	Quad 2-input AND gate	3.0 - 15	CMOS	±2.4	20	50	10	4	-40 to 85
HEF4082B	Dual 4-input AND gate	3.0 - 15	CMOS	±2.4	25	50	10	2	-40 to 85
XC7SET08	Single 2-input AND gate; TTL-enabled	4.5 - 5.5	TTL	±8	3.6	50	60	1	-40 to 125
XC7SH08	Single 2-input AND gate	2.0 - 5.5	CMOS	±8	3.2	50	60	1	-40 to 125

NAND gates

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Output Load C _L (typ) (pF)	f _{max} (MHz)	Number of bits	T _{amb} (°C)
74ABT00	Quad 2-input NAND gate	4.5 - 5.5	TTL	-15 / 20	2.5	50	100	4	-40 to 85
74AHC00	Quad 2-input NAND gate	2.0 - 5.5	CMOS	±8	3.2	50	60	4	-40 to 125
74AHC132	Quad 2-input NAND gate Schmitt-trigger	2.0 - 5.5	CMOS	±8	3.3	50	60	4	-40 to 125
74AHC1G00	Single 2-input NAND gate	2.0 - 5.5	CMOS	±8	3.5	50	60	1	-40 to 125
74AHC2G00	Dual 2-input NAND gate	2.0 - 5.5	CMOS	±8	3.5	50	60	2	-40 to 125
74AHCT00	Quad 2-input NAND gate; TTL-enabled	4.5 - 5.5	TTL	±8	3.3	50	60	4	-40 to 125
74AHCT132	Quad 2-input NAND gate Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±8	3.5	50	60	4	-40 to 125
74AHCT1G00	Single 2-input NAND gate; TTL-enabled	4.5 - 5.5	TTL	±8	3.6	50	60	1	-40 to 125
74AHCT2G00	Dual 2-input NAND gate; TTL-enabled	4.5 - 5.5	TTL	±8	3.6	50	60	2	-40 to 125
74AUP1T00	Single supply 2-input voltage-translating NAND gate	2.3 - 3.6	CMOS	±4	3.8	15	70	1	-40 to 125
74AUP2G132	Dual 2-input NAND gate Schmitt-trigger	1.1 - 3.6	CMOS	±1.9	10	30	70	2	-40 to 125
74HC132	Quad 2-input NAND gate Schmitt-trigger	2.0 - 6.0	CMOS	±5.2	11	50	36	4	-40 to 125
74HCT132	Quad 2-input NAND gate Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±4	17	50	36	4	-40 to 125
74LV00A	Quad 2-input NAND gate	2.0 - 5.5	CMOS	±12	4.3	15	45	4	-40 to 125
74LV132	Quad 2-input NAND gate Schmitt-trigger	1.0 - 5.5	TTL	±12	10	50	30	4	-40 to 125
74LVC132A	Quad 2-input NAND gate Schmitt-trigger	1.2 - 3.6	CMOS/ LVTTTL	±24	3.4	50	175	4	-40 to 125
HEF4093B	Quad 2-input NAND gate Schmitt-trigger	3.0 - 15	CMOS	±2.4	3.0	50	10	4	-40 to 85
74AHC30	8-input NAND gate	2.0 - 5.5	CMOS	±8	3.6	50	60	1	-40 to 125
74AHCT30	8-input NAND gate; TTL-enabled	4.5 - 5.5	TTL	±8	3.3	50	60	1	-40 to 125
74ALVC00	Quad 2-input NAND gate	1.65 - 3.6	CMOS/ LVTTTL	±24	2.1	50	145	4	-40 to 85
74AUP1G00	Single 2-input NAND gate	1.1 - 3.6	CMOS	±1.9	8.3	30	70	1	-40 to 125
74AUP1G132	Single 2-input NAND gate Schmitt trigger	1.1 - 3.6	CMOS	±1.9	10	30	70	1	-40 to 125
74AUP1G38	Single 2-input NAND gate; open drain	1.1 - 3.6	CMOS	1.9	8.5	30	70	1	-40 to 125
74AUP2G00	Dual 2-input NAND gate	1.1 - 3.6	CMOS	±1.9	8.3	30	70	2	-40 to 125
74AUP2G38	Dual 2-input NAND gate; open drain	1.1 - 3.6	CMOS	1.9	8.5	30	70	2	-40 to 125
74HC00	Quad 2-input NAND gate	2.0 - 6.0	CMOS	±5.2	7.0	50	36	4	-40 to 125
74HC03	Quad 2-input NAND gate; open drain	2.0 - 6.0	CMOS	5.2	8.0	50	36	4	-40 to 125
74HC10	Triple 3-input NAND gate	2.0 - 6.0	CMOS	±5.2	9.0	50	36	3	-40 to 125
74HC1G00	Single 2-input NAND gate	2.0 - 6.0	CMOS	±2.6	7.0	50	36	1	-40 to 125
74HC20	Dual 4-input NAND gate	2.0 - 6.0	CMOS	±5.2	8.0	50	36	2	-40 to 125
74HC2G00	Dual 2-input NAND gate	2.0 - 6.0	CMOS	±5.6	9.0	50	36	2	-40 to 125
74HC30	8-input NAND gate	2.0 - 6.0	CMOS	±5.2	12	50	36	1	-40 to 125
74HCT00	Quad 2-input NAND gate; TTL-enabled	4.5 - 5.5	TTL	±4	10	50	36	4	-40 to 125
74HCT03	Quad 2-input NAND gate; TTL-enabled; open drain	4.5 - 5.5	TTL	±4	10	50	36	4	-40 to 125
74HCT10	Triple 3-input NAND gate; TTL-enabled	4.5 - 5.5	TTL	±4	11	50	36	3	-40 to 125
74HCT1G00	Single 2-input NAND gate; TTL-enabled	4.5 - 5.5	TTL	±2	10	50	36	1	-40 to 125
74HCT2G00	Dual 2-input NAND gate; TTL-enabled	4.5 - 5.5	TTL	±4	12	50	36	2	-40 to 125
74HCT30	8-input NAND gate; TTL-enabled	4.5 - 5.5	TTL	±4	12	50	36	1	-40 to 125
74LV00	Quad 2-input NAND gate	1.0 - 5.5	TTL	±12	7	50	30	4	-40 to 125
74LV03	Quad 2-input NAND gate; TTL-enabled; open drain	1.0 - 5.5	TTL	±12	8.0	50	30	4	-40 to 125
74LV1T00	Single supply 2-input translating NAND gate	1.6 - 5.5	CMOS	±8	6.4	15	60	1	-40 to 125
74LVC00A	Quad 2-input NAND gate	1.2 - 3.6	CMOS/ LVTTTL	±24	2.1	50	150	4	-40 to 125
74LVC10A	Triple 3-input NAND gate	1.2 - 3.6	CMOS/ LVTTTL	±24	3.9	50	150	3	-40 to 125

NAND gates

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Output Load C _L (typ) (pF)	f _{max} (MHz)	Number of bits	T _{amb} (°C)
74LVC1G00	Single 2-input NAND gate	1.65 - 5.5	CMOS/ LVTTTL	±32	2.2	50	175	1	-40 to 125
74LVC1G10	Single 3-input NAND gate	1.65 - 5.5	CMOS/ LVTTTL	±32	2.6	50	175	1	-40 to 125
74LVC1G38	Single 2-input NAND gate; open drain	1.65 - 5.5	CMOS/ LVTTTL	32	2.3	50	175	1	-40 to 125
74LVC2G00	Dual 2-input NAND gate	1.65 - 5.5	CMOS/ LVTTTL	±32	2.2	50	175	2	-40 to 125
74LVC2G38	Dual 2-input NAND gate; open drain	1.65 - 5.5	CMOS/ LVTTTL	32	2.1	50	175	2	-40 to 125
HEF4011B	Quad 2-input NAND gate	3.0 - 15	CMOS	±2.4	20	50	10	4	-40 to 85

OR gates

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Output Load C _L (typ) (pF)	f _{max} (MHz)	Number of bits	T _{amb} (°C)
74ABT32	Quad 2-input OR gate	4.5 - 5.5	TTL	-15 / 20	2.3	50	100	4	-40 to 85
74AHC1G32	Single 2-input OR gate	2.0 - 5.5	CMOS	±8	3.2	50	60	1	-40 to 125
74AHCT1G32	Single 2-input OR gate	4.5 - 5.5	TTL	±8	3.3	50	60	1	-40 to 125
74AHC2G32	Dual 2-input OR gate	2.0 - 5.5	CMOS	±8	3.2	50	60	2	-40 to 125
74AHCT2G32	Dual 2-input OR gate	4.5 - 5.5	TTL	±8	3.3	50	60	2	-40 to 125
74AHC32	Quad 2-input OR gate	2.0 - 5.5	CMOS	±8	3.5	50	60	4	-40 to 125
74AHCT32	Quad 2-input OR gate; TTL-enabled	4.5 - 5.5	TTL	±8	5.0	50	60	4	-40 to 125
74ALVC32	Quad 2-input OR gate	1.65 - 3.6	CMOS/ LVTTTL	±24	2.0	50	150	4	-40 to 125
74AUP1G32	Single 2-input OR gate	1.1 - 3.6	CMOS	±1.9	7.9	30	70	1	-40 to 125
74AUP1G332	Single 3-input OR gate	1.1 - 3.6	CMOS	±1.9	6.8	30	70	1	-40 to 125
74AUP1T32	Single supply 2-input voltage-translating OR gate	2.3 - 3.6	CMOS	±4	3.7	15	70	1	-40 to 125
74AUP2G32	Dual 2-input OR gate	1.1 - 3.6	CMOS	±1.9	7.9	30	70	2	-40 to 125
74HC1G32	Single 2-input OR gate	2.0 - 6.0	CMOS	±2.6	8.0	50	36	1	-40 to 125
74HCT1G32	Single 2-input OR gate; TTL-enabled	4.5 - 5.5	TTL	±2.0	10	50	36	1	-40 to 125
74HC2G32	Dual 2-input OR gate	2.0 - 6.0	CMOS	±5.2	9.0	50	36	2	-40 to 125
74HCT2G32	Dual 2-input OR gate; TTL-enabled	4.5 - 5.5	TTL	±4.0	13	50	36	2	-40 to 125
74HC32	Quad 2-input OR gate	2.0 - 6.0	CMOS	±5.2	6.0	50	36	4	-40 to 125
74HCT32	Quad 2-input OR gate	4.5 - 5.5	TTL	±4.0	9.0	50	36	4	-40 to 125
74HC4075	Triple 3-input OR gate	2.0 - 6.0	CMOS	±5.2	8.0	50	36	3	-40 to 125
74HCT4075	Triple 3-input OR gate; TTL-enabled	4.5 - 5.5	TTL	±4	10	50	36	3	-40 to 125
74LV1T32	Single supply 2-input translating OR gate	1.6 - 5.5	CMOS	±8	6.6	15	60	1	-40 to 125
74LV32A	Quad 2-input OR gate	2.0 - 5.5	CMOS	±12	4.2	15	45	4	-40 to 125
74LV7032A	Quad 2-input OR gate; Schmitt trigger	2.0 - 5.5	CMOS	±12	4.3	15	45	4	-40 to 125
74LVC1G32	Single 2-input OR gate	1.65 - 5.5	CMOS/ LVTTTL	±32	2.1	50	150	1	-40 to 125
74LVC1G332	Single 3-input OR gate	1.65 - 5.5	CMOS/ LVTTTL	±32	2.6	50	150	1	-40 to 125
74LVC2G32	Dual 2-input OR gate	1.65 - 5.5	CMOS/ LVTTTL	±32	2.2	50	150	2	-40 to 125
74LVC32A	Quad 2-input OR gate	1.2 - 3.6	CMOS/ LVTTTL	±24	2.1	50	150	4	-40 to 125
74VHC32	Quad 2-input OR gate	2.0 - 5.5	CMOS	±8	3.5	50	60	4	-40 to 125
74VHCT32	Quad 2-input OR gate; TTL-enabled	4.5 - 5.5	TTL	±8	5.0	50	60	4	-40 to 125
HEF4071B	Quad 2-input OR gate	3.0 - 15	CMOS	±2.4	20	50	10	4	-40 to 125
XC7SET32	Single 2-input OR gate; TTL-enabled	4.5 - 5.5	TTL	±8	3.3	50	60	1	-40 to 125
XC7SH32	Single 2-input OR gate	2.0 - 5.5	CMOS	±8	3.2	50	60	1	-40 to 125

NOR gates

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Output Load C _L (typ) (pF)	f _{max} (MHz)	Number of bits	T _{amb} (°C)
74AHC02	Quad 2-input NOR gate	2.0 - 5.5	CMOS	±8	2.9	50	60	4	-40 to 125
74AHCT02	Quad 2-input NOR gate; TTL-enabled	4.5 - 5.5	TTL	±8	3.8	50	60	4	-40 to 125
74AHC1G02	Single 2-input NOR gate	2.0 - 5.5	CMOS	±8	3.2	50	60	1	-40 to 125
74AHCT1G02	Single 2-input NOR gate; TTL-enabled	4.5 - 5.5	TTL	±8	3.5	50	60	1	-40 to 125
74ALVC02	Quad 2-input NOR gate	1.65 - 3.6	CMOS/ LVTTTL	±24	2.2	50	150	4	-40 to 85
74AUP1G02	Single 2-input NOR gate	1.1 - 3.6	CMOS	±1.9	8.3	30	70	1	-40 to 125
74AUP1T02	Single supply 2-input voltage-translating NOR gate	2.3 - 3.6	CMOS	±4	3.8	15	70	1	-40 to 125
74AUP2G02	Dual 2-input NOR gate	1.1 - 3.6	CMOS	±1.9	8.3	30	70	2	-40 to 125
74HC02	Quad 2-input NOR gate	2.0 - 6.0	CMOS	±5.2	7.0	50	36	4	-40 to 125
74HCT02	Quad 2-input NOR gate; TTL-enabled	4.5 - 5.5	TTL	±4	9.0	50	36	4	-40 to 125
74HC1G02	Single 2-input NOR gate	2.0 - 6.0	CMOS	±2.6	7.0	50	36	1	-40 to 125
74HCT1G02	Single 2-input NOR gate; TTL-enabled	4.5 - 5.5	TTL	±2.0	9.0	50	36	1	-40 to 125
74HC27	Triple 3-input NOR gate	2.0 - 6.0	CMOS	±5.2	8.0	50	36	3	-40 to 125
74HCT27	Triple 3-input NOR gate; TTL-enabled	4.5 - 5.5	TTL	±4	10	50	36	3	-40 to 125
74HC2G02	Dual 2-input NOR gate	2.0 - 6.0	CMOS	±5.2	9.0	50	36	2	-40 to 125
74HCT2G02	Dual 2-input NOR gate; TTL-enabled	4.5 - 5.5	TTL	±4	12	50	36	2	-40 to 125
74HC4002	Dual 4-input NOR gate	2.0 - 6.0	CMOS	±5.2	9.0	50	36	2	-40 to 125
74LV02A	Quad 2-input NOR gate	2.0 - 5.5	CMOS	±12	4.3	15	45	4	-40 to 125
74LV1T02	Single supply 2-input translating NOR gate	1.6 - 5.5	CMOS	±8	6.6	15	60	1	-40 to 125
74LVC02A	Quad 2-input NOR gate	1.2 - 3.6	CMOS/ LVTTTL	±24	2.1	50	150	4	-40 to 125
74LVC1G02	Single 2-input NOR gate	1.65 - 5.5	CMOS/ LVTTTL	±32	2.1	50	150	1	-40 to 125
74LVC1G27	Single 3-input NOR gate	1.65 - 5.5	CMOS/ LVTTTL	±32	2.6	50	150	1	-40 to 125
74LVC2G02	Dual 2-input NOR gate	1.65 - 5.5	CMOS/ LVTTTL	±32	2.4	50	150	2	-40 to 125
74LVT02	Quad 2-input NOR gate	2.7 - 3.6	TTL	-20 / 32	2.8	50	150	4	-40 to 85
74VHC02	Quad 2-input NOR gate	2.0 - 5.5	CMOS	±8	2.9	50	60	4	-40 to 125
74VHCT02	Quad 2-input NOR gate; TTL-enabled	4.5 - 5.5	TTL	±8	3.8	50	60	4	-40 to 125
HEF4001B	Quad 2-input NOR gate	3.0 - 15	CMOS	±2.4	20	50	10	4	-40 to 85
XC7SET02	Single 2-input NOR gate; TTL-enabled	4.5 - 5.5	TTL	±8	3.5	50	60	1	-40 to 125
XC7SH02	Single 2-input NOR gate	2.0 - 5.5	CMOS	±8	3.2	50	60	1	-40 to 125

EXCLUSIVE-OR gates

Type number	Description	V _{cc} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Output Load C _L (typ) (pF)	f _{max} (MHz)	Number of bits	T _{amb} (°C)
74AHC1G86	2-input EXCLUSIVE-OR gate	2.0 - 5.5	CMOS	±8	3.4	50	60	1	-40 to 125
74AHCT1G86	2-input EXCLUSIVE-OR gate; TTL-enabled	4.5 - 5.5	TTL	±8	3.5	50	60	1	-40 to 125
74AHC86	Quad 2-input EXCLUSIVE-OR gate	2.0 - 5.5	CMOS	±8	3.4	50	60	4	-40 to 125
74AHCT86	Quad 2-input EXCLUSIVE-OR gate; TTL-enabled	4.5 - 5.5	TTL	±8	3.4	50	60	4	-40 to 125
74AUP1G386	Single 3-input EXCLUSIVE-OR gate	1.1 - 3.6	CMOS	±1.9	8.6	30	70	1	-40 to 125
74AUP1G86	Single 2-input Exclusive-OR gate	1.1 - 3.6	CMOS	±1.9	9.0	30	70	1	-40 to 125
74AUP1T86	Single supply 2-input translating EXCLUSIVE-OR gate	2.3 - 3.6	CMOS	±1.9	3.9	15	70	1	-40 to 125
74AUP2G86	Dual 2-input EXCLUSIVE-OR gate	1.1 - 3.6	CMOS	±1.9	9.0	30	70	2	-40 to 125
74HC1G86	Single 2-input EXCLUSIVE-OR gate	2.0 - 6.0	CMOS	±2.6	9.0	50	36	1	-40 to 125
74HCT1G86	Single 2-input EXCLUSIVE-OR gate; TTL-enabled	4.5 - 5.5	TTL	±2.0	10	50	36	1	-40 to 125
74HC2G86	Dual 2-input EXCLUSIVE-OR gate	2.0 - 6.0	CMOS	±5.2	9.0	50	36	2	-40 to 125
74HCT2G86	Dual 2-input EXCLUSIVE-OR gate; TTL-enabled	4.5 - 5.5	TTL	±4.0	11	50	36	2	-40 to 125
74HC86	Quad 2-input EXCLUSIVE-OR gate	2.0 - 6.0	CMOS	±5.2	11	50	36	4	-40 to 125
74HCT86	Quad 2-input EXCLUSIVE-OR gate; TTL-enabled	4.5 - 5.5	TTL	±4	14	50	36	4	-40 to 125
74LV1T86	Single supply 2-input translating EXCLUSIVE-OR gate	1.6 - 5.5	CMOS	±8	7.3	15	60	1	-40 to 125
74LVC1G386	Single 3-Input EXCLUSIVE-OR gate	1.65 - 5.5	CMOS/ LVTTTL	±32	4.5	50	150	1	-40 to 125
74LVC1G86	Single 2-input EXCLUSIVE-OR gate	1.65 - 5.5	CMOS/ LVTTTL	±32	2.4	50	150	1	-40 to 125
74LVC2G86	Dual 2-input EXCLUSIVE-OR gate	1.65 - 5.5	CMOS/ LVTTTL	±32	2.3	50	150	2	-40 to 125
74LVC86A	Quad 2-input EXCLUSIVE-OR gate	1.2 - 3.6	CMOS/ LVTTTL	±24	3.0	50	150	4	-40 to 125
HEF4030B	Quad 2-input EXCLUSIVE-OR gate	3.0 - 15	CMOS	±2.4	30	50	10	4	-40 to 85
HEF4070B	Quad 2-input EXCLUSIVE-OR gate	3.0 - 15	CMOS	±2.4	30	50	10	4	-40 to 85
XC7SET86	2-input EXCLUSIVE-OR gate; TTL-enabled	4.5 - 5.5	TTL	±8	3.5	50	60	1	-40 to 125
XC7SH86	2-input EXCLUSIVE-OR gate	2.0 - 5.5	CMOS	±8	3.4	50	60	1	-40 to 125

EXCLUSIVE-NOR gates

Type number	Description	V _{cc} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Output Load C _L (typ) (pF)	f _{max} (MHz)	T _{amb} (°C)
74AUP1T87	Single supply 2-input translating EXCLUSIVE-NOR gate	2.3 - 3.6	CMOS	±4	4		70	-40 to 125
74LV1T87	Single supply 2-input translating EXCLUSIVE-NOR gate	1.6 - 5.5	CMOS	±8	7.3		60	-40 to 125
HEF4077B	Quad 2-input EXCLUSIVE-NOR gate	3.0 - 15	CMOS	±2.4	30	50	10	-40 to 85

Combination gates

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Output Load C _L (typ) (pF)	f _{max} (MHz)	Number of bits	T _{amb} (°C)
74AUP1G0832	Single 3-input AND-OR gate	1.1 - 3.6	CMOS	±1.9	6.7	30	70	1	-40 to 125
74AUP1G3208	Single 3-input OR-AND gate	1.1 - 3.6	CMOS	±1.9	7.4	30	70	1	-40 to 125
74AUP1G885	Dual function gate	1.1 - 3.6	CMOS	±1.9	7.6	30	70	1	-40 to 125
74AUP1Z04	Crystal driver with enable and internal resistor	1.1 - 3.6	CMOS	±1.9	5.6	30	70	1	-40 to 125
74AUP1Z125	Crystal driver with enable and internal resistor (3-state)	1.1 - 3.6	CMOS	±1.9	4.7	30	70	1	-40 to 125
74AUP2G0604	Inverter with open drain and inverter	1.1 - 3.6	CMOS	±1.9	4.0	30	70	2	-40 to 125
74AUP2G3404	Buffer and inverter	1.1 - 3.6	CMOS	±1.9	4.0	30	70	2	-40 to 125
74AUP2G3407	Buffer and buffer with open drain	1.1 - 3.6	CMOS	±1.9	4.1	30	70	2	-40 to 125
74AUP3G0434	Dual inverter and single buffer	1.1 - 3.6	CMOS	±1.9	4.0	30	70	3	-40 to 125
74AUP3G3404	Dual buffer and single inverter	1.1 - 3.6	CMOS	±1.9	4.0	30	70	3	-40 to 125
74LVC1GX04	Crystal driver	1.65 - 5.5	CMOS / LVTTTL	±24	2.8	50	150	1	-40 to 125
HEF4007UB	Dual complementary pair and inverter	3.0 - 15	CMOS	±3.4	15	50	10	2	-40 to 85

Configurable gates

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Output Load C _L (typ) (pF)	f _{max} (MHz)	Number of bits	T _{amb} (°C)
74AUP1G57	Configurable gate; Schmitt-trigger	1.1 - 3.6	CMOS	±1.9	8.7	30	70	1	-40 to 125
74AUP1G58	Configurable gate; Schmitt-trigger	1.1 - 3.6	CMOS	±1.9	8.7	30	70	1	-40 to 125
74AUP1G97	Configurable gate; Schmitt-trigger	1.1 - 3.6	CMOS	±1.9	8.7	30	70	1	-40 to 125
74AUP1G98	Configurable gate; Schmitt-trigger	1.1 - 3.6	CMOS	±1.9	8.9	30	70	1	-40 to 125
74AUP1G3208	Configurable multiple function gate	0.8 - 3.6	CMOS	±4	6.6	30	70	1	-40 to 125
74AUP1T57	Configurable gate with voltage-level translation	2.3 - 3.6	CMOS	±4	3.9	15	70	1	-40 to 125
74AUP1T58	Configurable gate with voltage-level translation	2.3 - 3.6	CMOS	±4	3.9	15	70	1	-40 to 125
74AUP1T97	Configurable gate with voltage-level translation	2.3 - 3.6	CMOS	±4	3.9	15	70	1	-40 to 125
74AUP1T98	Configurable gate with voltage-level translation	2.3 - 3.6	CMOS	±4	3.9	15	70	1	-40 to 125
74AUP2G57	Dual configurable gate; Schmitt-trigger	0.8 - 3.6	CMOS	±4	6.6	30	70	1	-40 to 125
74AUP2G58	Dual configurable gate; Schmitt-trigger	0.8 - 3.6	CMOS	±4	6.6	30	70	1	-40 to 125
74AUP2G97	Dual configurable gate; Schmitt-trigger	0.8 - 3.6	CMOS	±4	6.6	30	70	1	-40 to 125
74AUP2G98	Dual configurable gate; Schmitt-trigger	0.8 - 3.6	CMOS	±4	6.6	30	70	1	-40 to 125
74LVC1G57	Configurable gate; Schmitt-trigger	1.65 - 5.5	CMOS / LVTTTL	±32	6.3	50	150	1	-40 to 125
74LVC1G58	Configurable gate; Schmitt-trigger	1.65 - 5.5	CMOS / LVTTTL	±32	6.3	50	150	1	-40 to 125
74LVC1G97	Configurable gate; Schmitt-trigger	1.65 - 5.5	CMOS / LVTTTL	±32	6.3	50	150	1	-40 to 125
74LVC1G98	Configurable gate; Schmitt-trigger	1.65 - 5.5	CMOS / LVTTTL	±32	6.3	50	150	1	-40 to 125
74LVC1G99	Configurable gate; Schmitt-trigger	1.65 - 5.5	CMOS / LVTTTL	±32	8.4	50	150	1	-40 to 125

Schmitt-triggers

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Output Load C _L (pF)	f _{max} (MHz)	Number of bits	T _{amb} (°C)
74AHC132	Quad 2-input NAND gate Schmitt-trigger	2.0 - 5.5	CMOS	±8	3.3	50	60	4	-40 to 125
74AHC14	Hex inverter Schmitt-trigger	2.0 - 5.5	CMOS	±8	3.2	50	60	6	-40 to 125
74AHC1G14	Single inverter Schmitt-trigger	2.0 - 5.5	CMOS	±8	3.2	50	60	1	-40 to 125
74AHC1G17	Single buffer Schmitt-trigger	2.0 - 5.5	CMOS	±8	3.2	50	60	1	-40 to 125
74AHC3G14	Triple inverter Schmitt-trigger	2.0 - 5.5	CMOS	±8	3.2	50	60	3	-40 to 125
74AHCT132	Quad 2-input NAND gate Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±8	3.5	50	60	4	-40 to 125
74AHCT14	Hex inverter Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±8	4.0	50	60	6	-40 to 125
74AHCT17A	Hex buffer Schmitt-trigger	4.5 - 5.5	TTL	±8	3.2	50	60	8	-40 to 125
74AHCT1G14	Single inverter Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±8	4.1	50	60	1	-40 to 125
74AHCT1G17	Single buffer Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±8	4.1	50	60	1	-40 to 125
74AHCT3G14	Triple inverter Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±8	4.1	50	60	3	-40 to 125
74AHCV05A	Hex inverter; Schmitt trigger; open-drain	2.0 - 5.5	CMOS	±16	5.8	15	10	6	-40 to 125
74AHCV07A	Hex buffer Schmitt-trigger; open-drain	1.8 - 5.5	CMOS	16	3.8	15	60	6	-40 to 125
74AHCV14A	Hex inverter Schmitt-trigger	1.8 - 5.5	CMOS	±16	3.2	15	60	6	-40 to 125
74AHCV17A	Hex buffer Schmitt-trigger	1.8 - 5.5	CMOS	±16	3.2	15	60	6	-40 to 125
74AHCV244A	Octal buffer/line driver Schmitt-trigger (3-state)	1.8 - 5.5	CMOS	±16	3.0	15	60	8	-40 to 125
74AHCV245A	Octal transceiver Schmitt-trigger (3-state)	1.8 - 5.5	CMOS	±16	3.2	15	60	8	-40 to 125
74AHCV541A	Octal buffer/line driver Schmitt-trigger (3-state)	1.8 - 5.5	CMOS	±16	3.0	15	60	8	-40 to 125
74ALVC14	Hex inverter Schmitt-trigger	1.65 - 3.6	TTL	±24	2.4	50	150	6	-40 to 85
74AUP1G132	Single 2-input NAND gate Schmitt-trigger	1.1 - 3.6	CMOS	±1.9	10.0	30	70	1	-40 to 125
74AUP1G14	Single inverter Schmitt-trigger	1.1 - 3.6	CMOS	±1.9	4.7	30	70	1	-40 to 125
74AUP1G17	Single buffer Schmitt-trigger	1.1 - 3.6	CMOS	±1.9	7.8	30	70	1	-40 to 125
74AUP1G57	Configurable gate; Schmitt-trigger	1.1 - 3.6	CMOS	±1.9	8.7	30	70	1	-40 to 125
74AUP1G58	Configurable gate; Schmitt-trigger	1.1 - 3.6	CMOS	±1.9	8.7	30	70	1	-40 to 125
74AUP1G97	Configurable gate; Schmitt-trigger	1.1 - 3.6	CMOS	±1.9	8.7	30	70	1	-40 to 125
74AUP1G98	Configurable gate; Schmitt-trigger	1.1 - 3.6	CMOS	±1.9	8.9	30	70	1	-40 to 125
74AUP2G132	Dual 2-input NAND gate Schmitt-trigger	1.1 - 3.6	CMOS	±1.9	10	30	70	2	-40 to 125
74AUP2G14	Dual inverter Schmitt-trigger	1.1 - 3.6	CMOS	±1.9	4.7	30	70	2	-40 to 125
74AUP2G17	Dual buffer Schmitt-trigger	1.1 - 3.6	CMOS	±1.9	7.8	30	70	2	-40 to 125
74AUP2G58	Dual configurable gate; Schmitt-trigger	1.1 - 3.6	CMOS	±1.9	8.7	30	70	2	-40 to 125
74AUP2G97	Dual configurable gate; Schmitt-trigger	1.1 - 3.6	CMOS	±1.9	8.7	30	70	2	-40 to 125
74AUP2G98	Dual configurable gate; Schmitt-trigger	1.1 - 3.6	CMOS	±1.9	8.9	30	70	2	-40 to 125
74AUP3G14	Triple inverter Schmitt-trigger	1.1 - 3.6	CMOS	±1.9	2.4	30	70	3	-40 to 125

Schmitt-triggers

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Output Load C _L (pF)	f _{max} (MHz)	Number of bits	T _{amb} (°C)
74AUP3G17	Triple Schmitt-trigger	1.1 - 3.6	CMOS	±1.9	2.4	30	70	3	-40 to 125
74HC132	Quad 2-input NAND gate Schmitt-trigger	2.0 - 6.0	CMOS	±5.2	11	50	36	4	-40 to 125
74HC14	Hex inverter Schmitt-trigger	2.0 - 6.0	CMOS	±5.2	12	50	36	6	-40 to 125
74HC1G14	Single inverter Schmitt-trigger	2.0 - 6.0	CMOS	±2.6	10	50	36	1	-40 to 125
74HC2G14	Dual inverter Schmitt-trigger	2.0 - 6.0	CMOS	±5.2	16	50	36	2	-40 to 125
74HC2G17	Dual buffer Schmitt-trigger	2.0 - 6.0	CMOS	±5.2	12	50	36	2	-40 to 125
74HC3G14	Triple inverter Schmitt-trigger	2.0 - 6.0	CMOS	±5.2	16	50	36	3	-40 to 125
74HC7014	Hex buffer precision Schmitt-trigger	2.0 - 6.0	CMOS	±5.2	27	50	36	6	-40 to 125
74HC7540	Octal inverter/line driver Schmitt-trigger (3-state)	2.0 - 6.0	CMOS	±7.8	11	50	36	8	-40 to 125
74HC7541	Octal buffer/line driver Schmitt-trigger (3-state)	2.0 - 6.0	CMOS	±7.8	11	50	36	8	-40 to 125
74HC9114	9-bit inverter Schmitt-trigger; open drain (3-state)	2.0 - 6.0	CMOS	5.2	12	50	36	9	-40 to 125
74HC9115	9-bit buffer Schmitt-trigger; open drain (3-state)	2.0 - 6.0	CMOS	5.2	12	50	36	9	-40 to 125
74HCT132	Quad 2-input NAND gate Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±4	17	50	36	4	-40 to 125
74HCT14	Hex inverter Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±4	17	50	36	6	-40 to 125
74HCT1G14	Single inverter Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±2.0	15	50	36	1	-40 to 125
74HCT2G14	Dual inverter Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±4.0	21	50	36	2	-40 to 125
74HCT2G17	Dual buffer Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±4.0	21	50	36	2	-40 to 125
74HCT3G14	Triple inverter Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±4.0	21	50	36	3	-40 to 125
74HCT7540	Octal inverter/line driver Schmitt-trigger; TTL-enabled (3-state)	4.5 - 5.5	TTL	±6	16	50	36	8	-40 to 125
74HCT7541	Octal buffer/line driver Schmitt-trigger; TTL-enabled (3-state)	4.5 - 5.5	TTL	±6	16	50	36	8	-40 to 125
74HCT9114	9-bit inverter Schmitt-trigger; open drain; TTL-enabled (3-state)	4.5 - 5.5	TTL	4	13	50	36	9	-40 to 125
74LV132	Quad 2-input NAND gate Schmitt-trigger	1.0 - 5.5	TTL	±12	10	50	30	4	-40 to 125
74LV14	Hex inverter Schmitt-trigger	1.0 - 5.5	TTL	±12	13	50	30	6	-40 to 125
74LV14A	Hex inverter Schmitt-trigger	2.0 - 5.5	CMOS	±12	3.4	15	60	6	-40 to 125
74LV7032A	Quad 2-input OR gate; Schmitt trigger	2.0 - 5.5	CMOS	±12	4.3	15	45	4	-40 to 125
74LVC132A	Quad 2-input NAND gate Schmitt-trigger	1.2 - 3.6	CMOS/LVTTL	±24	3.4	50	175	4	-40 to 125
74LVC14A	Hex inverter Schmitt-trigger	1.2 - 3.6	CMOS/LVTTL	±24	3.2	50	175	6	-40 to 125
74LVC1G14	Single inverter Schmitt-trigger	1.65 - 5.5	CMOS/LVTTL	±32	3.0	50	175	1	-40 to 125
74LVC1G17	Single buffer Schmitt-trigger	1.65 - 5.5	CMOS/LVTTL	±32	3.0	50	175	1	-40 to 125
74LVC1G57	Configurable gate; Schmitt-trigger	1.65 - 5.5	CMOS/LVTTL	±32	6.3	50	150	1	-40 to 125
74LVC1G58	Configurable gate; Schmitt-trigger	1.65 - 5.5	CMOS/LVTTL	±32	6.3	50	150	1	-40 to 125
74LVC1G97	Configurable gate; Schmitt-trigger	1.65 - 5.5	CMOS/LVTTL	±32	6.3	50	150	1	-40 to 125

Schmitt-triggers

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Output Load C _L (pF)	f _{max} (MHz)	Number of bits	T _{amb} (°C)
74LVC1G98	Configurable gate; Schmitt-trigger	1.65 - 5.5	CMOS/LVTTL	±32	6.3	50	150	1	-40 to 125
74LVC1G99	Configurable gate; Schmitt-trigger	1.65 - 5.5	CMOS/LVTTL	±32	8.4	50	150	1	-40 to 125
74LVC2G14	Dual inverter Schmitt-trigger	1.65 - 5.5	CMOS/LVTTL	±32	3.9	50	175	2	-40 to 125
74LVC2G17	Dual buffer Schmitt-trigger	1.65 - 5.5	CMOS/LVTTL	±32	3.6	50	175	2	-40 to 125
74LVC3G14	Triple inverter Schmitt-trigger	1.65 - 5.5	CMOS/LVTTL	±32	3.2	50	175	3	-40 to 125
74LVC3G17	Triple buffer Schmitt-trigger	1.65 - 5.5	CMOS/LVTTL	±32	3.6	50	175	3	-40 to 125
74LV14	Hex inverter Schmitt-trigger	2.7 - 3.6	TTL	±32	3.8	50	150	6	-40 to 125
74VHC14	Hex inverter Schmitt-trigger	2.0 - 5.5	CMOS	±8	3.2	50	60	6	-40 to 125
74VHCT14	Hex inverter Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±8	4.1	50	60	6	-40 to 125
HEF40106B	Hex inverter Schmitt-trigger	3.0 - 15	CMOS	±2.4	30	50	10	6	-40 to 85
HEF4093B	Quad 2-input NAND gate Schmitt-trigger	3.0 - 15	CMOS	±2.4	30	50	10	4	-40 to 125
XC7SET14	Single inverter Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±8	4.1	50	60	1	-40 to 125
XC7SH14	Single inverter Schmitt-trigger	2.0 - 5.5	CMOS	±8	3.2	50	60	1	-40 to 125
XC7WH14	Triple inverter Schmitt-trigger	2.0 - 5.5	CMOS	±8	3.2	50	60	3	-40 to 125
XC7WT14	Triple inverter Schmitt-trigger; TTL-enabled	4.5 - 5.5	TTL	±8	4.1	50	60	3	-40 to 125

Flip-flops

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Output Load C _L (pF)	f _{max} (MHz)	T _{amb} (°C)
74ABT74	Dual D-type flip-flop with set and reset; positive-edge trigger	4.5 - 5.5	TTL	-0.75	3.0	50	250	-40 to 85
74AHC1G79	Single D-type flip-flop; positive-edge trigger	2.0 - 5.5	CMOS	±8	3.5	50	90	-40 to 125
74AHC273	Octal D-type flip-flop with reset; positive-edge trigger	2.0 - 5.5	CMOS	±8	4.2	50	165	-40 to 125
74AHC374	Octal D-type flip-flop; positive-edge trigger (3-state)	2.0 - 5.5	CMOS	±8	4.4	50	185	-40 to 125
74AHC574	Octal D-type flip-flop; positive-edge trigger (3-state)	2.0 - 5.5	CMOS	±8	4.4	50	130	-40 to 125
74AHC74	Dual D-type flip-flop with set and reset; positive-edge trigger	2.0 - 5.5	CMOS	±8	3.7	50	170	-40 to 125
74AHCT1G79	Single D-type flip-flop; positive-edge trigger; TTL-enabled	4.5 - 5.5	TTL	±8	3.5	50	90	-40 to 125
74AHCT273	Octal D-type flip-flop with reset; positive-edge trigger; TTL-enabled	4.5 - 5.5	TTL	±8	4.0	50	120	-40 to 125
74AHCT374	Octal D-type flip-flop; positive-edge trigger (3-state)	4.5 - 5.5	TTL	±8	4.3	50	140	-40 to 125
74AHCT574	Octal D-type flip-flop; positive-edge trigger; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	4.4	50	130	-40 to 125
74AHCT74	Dual D-type flip-flop with set and reset; positive-edge trigger; TTL-enabled	4.5 - 5.5	TTL	±8	3.3	50	160	-40 to 125
74ALVC374	Octal D-type flip-flop; positive-edge trigger (3-state)	1.65 - 3.6	TTL	±24	2.5	50	300	-40 to 85
74ALVC574	Octal D-type flip-flop; positive-edge trigger (3-state)	1.65 - 3.6	TTL	±24	2.5	50	300	-40 to 85
74ALVC74	Dual D-type flip-flop with set and reset; positive-edge trigger	1.65 - 3.6	TTL	±24	2.3	50	425	-40 to 85
74ALVCH16374	16-bit D-type flip-flop with bus hold; positive-edge trigger (3-state)	1.2 - 3.6	TTL	±24	2.3	50	350	-40 to 85
74ALVCH16821	20-bit D-type flip-flop with bus hold; positive-edge trigger (3-state)	2.3 - 3.6	TTL	±24	2.5	50	350	-40 to 85
74ALVCH16823	18-bit D-type flip-flop with bus hold; positive-edge trigger (3-state)	1.2 - 3.6	TTL	±24	2.1	50	350	-40 to 85
74ALVT162821	20-bit D-type flip-flop with source termination; positive-edge trigger (3-state)	2.3 - 3.6	TTL	±12	3.2	50	150	-40 to 85
74ALVT162823	18-bit D-type flip-flop with source termination; positive-edge trigger (3-state)	2.3 - 3.6	TTL	±12	3.0	50	150	-40 to 85
74ALVT16821	20-bit D-type flip-flop; positive-edge trigger (3-state)	2.3 - 3.6	TTL	-32 / 64	1.8	50	150	-40 to 85
74ALVT16823	18-bit D-type flip-flop; positive-edge trigger (3-state)	2.3 - 3.6	TTL	-32 / 64	1.9	50	250	-40 to 85
74AUP1G175	Single D flip-flop with reset; positive-edge trigger	1.1 - 3.6	CMOS	±1.9	7.4	30	70	-40 to 125
74AUP1G374	Single D-type flip-flop; positive-edge trigger (3-state)	1.1 - 3.6	CMOS	±1.9	7.9	30	400	-40 to 125
74AUP1G74	Single D-type flip-flop with set and reset; positive-edge trigger	1.1 - 3.6	CMOS	±1.9	9.2	30	400	-40 to 125
74AUP1G79	Single D-type flip-flop; positive-edge trigger	1.1 - 3.6	CMOS	±1.9	9.1	30	400	-40 to 125
74AUP1G80	Single D-type flip-flop; positive-edge trigger	1.1 - 3.6	CMOS	±1.9	9.1	30	400	-40 to 125
74AUP2G79	Dual D-type flip-flop; positive-edge trigger	1.1 - 3.6	CMOS	±1.9	8.5	30	400	-40 to 125
74AUP2G80	Dual D-type flip-flop; positive-edge trigger	1.1 - 3.6	CMOS	±1.9	9.1	30	400	-40 to 125
74HC107	Dual JK-type flip-flop with reset; negative-edge trigger	2.0 - 6.0	CMOS	±5.2	16	50	78	-40 to 125
74HC109	Dual JK-type flip-flop with set and reset; positive-edge trigger	2.0 - 6.0	CMOS	±5.2	15	50	75	-40 to 125
74HC112	Dual JK-type flip-flop with set and reset; negative-edge trigger	2.0 - 6.0	CMOS	±5.2	15	50	66	-40 to 125
74HC173	Quad D-type flip-flop; positive-edge trigger (3-state)	2.0 - 6.0	CMOS	±7.8	17	50	88	-40 to 125
74HC174	Hex D-type flip-flop with reset; positive-edge trigger	2.0 - 6.0	CMOS	±5.2	17	50	99	-40 to 125
74HC175	Quad D-type flip-flop with reset; positive-edge trigger	2.0 - 6.0	CMOS	±5.2	17	50	83	-40 to 125
74HC273	Octal D-type flip-flop with reset; positive-edge trigger	2.0 - 6.0	CMOS	±5.2	15	50	122	-40 to 125
74HC374	Octal D-type flip-flop; positive-edge trigger (3-state)	2.0 - 6.0	CMOS	±7.8	14	50	83	-40 to 125

Flip-flops

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Output Load C _L (pF)	f _{max} (MHz)	T _{amb} (°C)
74HC377	Octal D-type flip-flop with data enable; positive-edge trigger	2.0 - 6.0	CMOS	±7.8	13	50	83	-40 to 125
74HC574	Octal D-type flip-flop; positive-edge trigger (3-state)	2.0 - 6.0	CMOS	±7.8	14	50	133	-40 to 125
74HC73	Dual JK-type flip-flop with reset; negative-edge trigger	2.0 - 6.0	CMOS	±5.2	16	50	77	-40 to 125
74HC74	Dual D-type flip-flop with set and reset; positive-edge trigger	2.0 - 6.0	CMOS	±5.2	14	50	82	-40 to 125
74HCT107	Dual JK-type flip-flop with reset; negative-edge trigger; TTL-enabled	4.5 - 5.5	TTL	±4	16	50	73	-40 to 125
74HCT109	Dual JK-type flip-flop with set and reset; positive-edge trigger; TTL-enabled	4.5 - 5.5	TTL	±4	17	50	61	-40 to 125
74HCT112	Dual JK-type flip-flop with set and reset; negative-edge trigger; TTL-enabled	4.5 - 5.5	TTL	±4	19	50	70	-40 to 125
74HCT173	Quad D-type flip-flop; positive-edge trigger; TTL-enabled (3-state)	4.5 - 5.5	TTL	±6	17	50	88	-40 to 125
74HCT174	Hex D-type flip-flop with reset; positive-edge trigger; TTL-enabled	4.5 - 5.5	TTL	±4	18	50	69	-40 to 125
74HCT175	Quad D-type flip-flop with reset; positive-edge trigger; TTL-enabled	4.5 - 5.5	TTL	±4	16	50	54	-40 to 125
74HCT273	Octal D-type flip-flop with reset; positive-edge trigger; TTL-enabled	4.5 - 5.5	TTL	±4	15	50	36	-40 to 125
74HCT374	Octal D-type flip-flop; positive-edge trigger; TTL-enabled (3-state)	4.5 - 5.5	TTL	±6	13	50	48	-40 to 125
74HCT377	Octal D-type flip-flop with data enable; positive-edge trigger; TTL-enabled	4.5 - 5.5	TTL	±6	14	50	53	-40 to 125
74HCT574	Octal D-type flip-flop; positive-edge trigger; TTL-enabled (3-state)	4.5 - 5.5	TTL	±6	15	50	76	-40 to 125
74HCT74	Dual D-type flip-flop with set and reset; positive-edge trigger; TTL-enabled	4.5 - 5.5	TTL	±4	15	50	59	-40 to 125
74LV74	Dual D-type flip-flop with set and reset; positive-edge trigger	1.0 - 5.5	TTL	±12	11	50	75	-40 to 125
74LVC16374A	16-bit D-type flip-flop; positive-edge trigger (3-state)	1.2 - 3.6	CMOS/ LVTTTL	±24	3.8	50	150	-40 to 125
74LVC1G175	Single D flip-flop with reset; positive-edge trigger	1.65 - 5.5	CMOS/ LVTTTL	±32	3.1	50	300	-40 to 125
74LVC1G74	Single D-type flip-flop with set and reset; positive-edge trigger	1.65 - 5.5	CMOS/ LVTTTL	±32	3.5	50	280	-40 to 125
74LVC1G79	Single D-type flip-flop; positive-edge trigger	1.65 - 5.5	CMOS/ LVTTTL	±32	2.2	50	450	-40 to 125
74LVC1G80	Single D-type flip-flop; positive-edge trigger	1.65 - 5.5	CMOS/ LVTTTL	±32	2.4	50	450	-40 to 125
74LVC273	Octal D-type flip-flop with reset; positive-edge trigger	1.2 - 3.6	CMOS/ LVTTTL	±24	6.0	50	230	-40 to 125
74LVC2G74	Single D-type flip-flop with set and reset; positive-edge trigger	1.65 - 5.5	CMOS/ LVTTTL	±32	3.5	50	280	-40 to 125
74LVC374A	Octal D-type flip-flop; positive-edge trigger (3-state)	1.2 - 3.6	CMOS/ LVTTTL	±24	2.7	50	100	-40 to 125
74LVC377	Octal D-type flip-flop with data enable; positive-edge trigger	1.2 - 3.6	CMOS/ LVTTTL	±24	6.0	50	230	-40 to 125
74LVC574A	Octal D-type flip-flop; positive-edge trigger (3-state)	1.2 - 3.6	CMOS/ LVTTTL	±24	3.2	50	150	-40 to 125
74LVC74A	Dual D-type flip-flop with set and reset; positive-edge trigger	1.2 - 3.6	CMOS/ LVTTTL	±24	2.5	50	250	-40 to 125
74LVCH162374A	16-bit D-type flip-flop with bus hold and 30 Ω termination resistors; positive-edge trigger (3-state)	1.2 - 3.6	CMOS/ LVTTTL	±24	3.8	50	150	-40 to 125
74LVCH16374A	16-bit D-type flip-flop with bus hold; positive-edge trigger (3-state)	1.2 - 3.6	CMOS/ LVTTTL	±24	3.8	50	150	-40 to 125
74LVT162374	16-bit D-type flip-flop with bus hold and 30 Ω termination resistors; positive-edge trigger (3-state)	2.7 - 3.6	TTL	±12	3.0	50	150	-40 to 85
74LVT16374A	16-bit D-type flip-flop with bus hold; positive-edge trigger (3-state)	2.7 - 3.6	TTL	-32 / 64	3.0	50	150	-40 to 85
74LVTH16374A	16-bit D-type flip-flop with bus hold; positive-edge trigger (3-state)	2.7 - 3.6	TTL	-32 / 64	3.0	50	150	-40 to 85
HEF4013B	Dual D-type flip-flop with set and reset; positive-edge trigger	3.0 - 15.0	CMOS	±2.4	30	50	40	-40 to 85
HEF40175B	Quad D-type flip-flop with reset; positive-edge trigger	3.0 - 15.0	CMOS	±2.4	25	50	45	-40 to 85
HEF4027B	Dual JK-type flip-flop	3.0 - 15.0	CMOS	±2.4	30	50	30	-40 to 85

Latches / Registered drivers

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Output Load C _L (pF)	Number of bits	T _{amb} (°C)
74AHC373	Octal D-type transparent latch (3-state)	2.0 - 5.5	CMOS	±8	4.3	50	8	-40 to 125
74AHC573	Octal D-type transparent latch (3-state)	2.0 - 5.5	CMOS	±8	4.2	50	8	-40 to 125
74AHCT573	Octal D-type transparent latch; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	3.9	50	8	-40 to 125
74ALVC373	Octal D-type transparent latch (3-state)	1.65 - 3.6	TTL	±24	2.2	50	8	-40 to 85
74ALVC573	Octal D-type transparent latch (3-state)	1.65 - 3.6	TTL	±24	2.2	50	8	-40 to 85
74ALVCH16373	16-bit D-type transparent latch with bus hold (3-state)	2.3 - 3.6	TTL	±24	2.1	50	16	-40 to 85
74ALVCH16841	20-bit D-type transparent latch with bus hold (3-state)	2.3 - 3.6	TTL	±24	2.4	50	20	-40 to 85
74ALVCH16843	18-bit D-type transparent latch with bus hold (3-state)	2.3 - 3.6	TTL	±24	2.1	50	18	-40 to 85
74ALVT16373	16-bit D-type transparent latch with bus hold (3-state)	2.3 - 3.6	TTL	-32 / 64	1.8	50	16	-40 to 85
74AUP1G373	Single D-type transparent latch (3-state)	1.1 - 3.6	CMOS	±1.9	8.5	30	1	-40 to 125
74HC259	8-bit addressable latch	2.0 - 6.0	CMOS	±5.2	18	50	8	-40 to 125
74HC373	Octal D-type transparent latch (3-state)	2.0 - 6.0	CMOS	±7.8	12	50	8	-40 to 125
74HC573	Octal D-type transparent latch (3-state)	2.0 - 6.0	CMOS	±7.8	14	50	8	-40 to 125
74HC75	Quad bistable transparent latch	2.0 - 6.0	CMOS	±5.2	11	50	4	-40 to 125
74HCT259	8-bit addressable latch; TTL-enabled	4.5 - 5.5	TTL	±4	20	50	8	-40 to 125
74HCT373	Octal D-type transparent latch; TTL-enabled (3-state)	4.5 - 5.5	TTL	±6	14	50	8	-40 to 125
74HCT573	Octal D-type transparent latch; TTL-enabled (3-state)	4.5 - 5.5	TTL	±6	17	50	8	-40 to 125
74LVC162373A	16-bit D-type transparent latch with 30 Ω termination resistors (3-state)	1.2 - 3.6	CMOS/LVTTL	±12	3.2	50	16	-40 to 125
74LVC16373A	16-bit D-type transparent latch (3-state)	1.2 - 3.6	CMOS/LVTTL	±24	3.0	50	16	-40 to 125
74LVC373A	Octal D-type transparent latch (3-state)	1.2 - 3.6	CMOS/LVTTL	±24	3.0	50	8	-40 to 125
74LVC573A	Octal D-type transparent latch (3-state)	1.2 - 3.6	CMOS/LVTTL	±24	3.4	50	8	-40 to 125
74LVCH162373A	16-bit D-type transparent latch with bus hold and 30 Ω termination resistors (3-state)	1.2 - 3.6	CMOS/LVTTL	±24	3.2	50	16	-40 to 125
74LVCH16373A	16-bit D-type transparent latch with bus hold (3-state)	1.2 - 3.6	CMOS/LVTTL	±24	3.0	50	16	-40 to 125
74LVT162373	16-bit D-type transparent latch with bus hold and 30 Ω termination resistors (3-state)	2.7 - 3.6	TTL	±12	2.5	50	16	-40 to 85
74LVT16373A	16-bit D-type transparent latch with bus hold (3-state)	2.7 - 3.6	TTL	-32 / 64	1.9	50	16	-40 to 85
74LVT573	Octal D-type transparent latch (3-state)	2.7 - 3.6	TTL	-32 / 64	2.7	50	8	-40 to 85
HEF4043B	Quad R/S latch with set and reset (3-state)	3.0 - 15.0	CMOS	±2.4	25	50	4	-40 to 85

Shift registers

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	f _{max} (MHz)	Number of bits	T _{amb} (°C)
74AHC164	8-bit serial-in/parallel-out shift register	2.0 - 5.5	CMOS	+/- 8	4.5	115	8	-40 to 125
74AHC164	8-bit serial-in/parallel-out shift register; TTL enabled	4.5 - 5.5	TTL	+/- 8	3.4	115	8	-40 to 125
74AHC594	8-bit serial-in/parallel-out shift register with output storage register	2.0 - 5.5	CMOS	+/- 8	4.1	160	8	-40 to 125
74AHC594	8-bit serial-in/parallel-out shift register with output storage register; TTL enabled	4.5 - 5.5	TTL	+/- 8	3.8	160	8	-40 to 125
74AHC595	8-bit serial-in/parallel-out shift register with output storage register (3-state)	2.0 - 5.5	CMOS	+/- 8	4	170	8	-40 to 125
74AHC595	8-bit serial-in/parallel-out shift register with output storage register; TTL enabled (3-state)	4.5 - 5.5	TTL	+/- 8	3.8	170	8	-40 to 125
74HC299	8-bit universal shift register (3-state)	2.0 - 6.0	CMOS	+/- 7.8	19	54	8	-40 to 125
74HC164	8-bit serial-in/parallel-out shift register	2.0 - 6.0	CMOS	+/- 5.2	12	78	8	-40 to 125
74HCT164	8-bit serial-in/parallel-out shift register; TTL enabled	2.0 - 6.0	TTL	+/- 5.2	12	78	8	-40 to 125
74HC165	8-bit parallel or serial-in/serial-out shift register	2.0 - 6.0	CMOS	+/- 5.2	16	56	8	-40 to 125
74HCT165	8-bit parallel or serial-in/serial-out shift register; TTL enabled	4.5 - 5.5	TTL	+/- 4	14	48	8	-40 to 125
74HC166	8-bit parallel or serial-in/serial-out shift register	2.0 - 6.0	CMOS	+/- 5.2	15	63	8	-40 to 125
74HCT166	8-bit parallel or serial-in/serial-out shift register; TTL enabled	4.5 - 5.5	TTL	+/- 4.0	23	50	8	-40 to 125
74HC594	8-bit serial-in/parallel-out shift register with output storage register	2.0 - 6.0	CMOS	+/- 7.8	14	109	8	-40 to 125
74HCT594	8-bit serial-in/parallel-out shift register with output storage register; TTL enabled	4.5 - 5.5	TTL	+/- 6	15	100	8	-40 to 125
74HC595	8-bit serial-in/parallel-out shift register with output storage register (3-state)	2.0 - 6.0	CMOS	+/- 7.8	16	108	8	-40 to 125
74HCT595	8-bit serial-in/parallel-out shift register with output storage register; TTL enabled (3-state)	4.5 - 5.5	TTL	+/- 6	25	57	8	-40 to 125
74HC597	8-bit parallel or serial-in/parallel-out shift register with parallel input storage register	2.0 - 6.0	CMOS	+/- 5.2	16	108	8	-40 to 125
74HCT597	8-bit parallel or serial-in/parallel-out shift register with parallel input storage register; TTL enabled	4.5 - 5.5	TTL	+/- 4	20	83	8	-40 to 125
74HC4094	8-bit serial-in/serial or parallel-out shift register with output register (3-state)	2.0 - 6.0	CMOS	+/- 5.2	15	95	8	-40 to 125
74HCT4094	8-bit serial-in/serial or parallel-out shift register with output register; TTL enabled (3-state)	4.5 - 5.5	TTL	+/- 4	19	86	8	-40 to 125
74LV164	8-bit serial-in/parallel-out shift register	1.0 - 5.5	CMOS	+/- 12	12	78	8	-40 to 125
74LV165	8-bit parallel or serial-in/serial-out shift register	1.0 - 5.5	CMOS	+/- 12	18	78	8	-40 to 125
74LV165A	8-bit parallel or serial-in/serial-out shift register	1.0 - 5.5	CMOS	+/- 12	7.5	115	8	-40 to 125
74LV595	8-bit serial-in/parallel-out shift register with output storage register (3-state)	1.0 - 3.6	CMOS	+/- 8	15	77	8	-40 to 125
74LV4094	8-bit serial-in/serial or parallel-out shift register with output register (3-state)	1.0 - 3.6	CMOS	+/- 6	14	95	8	-40 to 125
74LVC594A	8-bit serial-in/parallel-out shift register with output storage register	1.2 - 5.5	CMOS/LVTTL	+/- 24	3.1	180	8	-40 to 125
74LVC595A	8-bit serial-in/parallel-out shift register with output storage register (3-state)	1.2 - 5.5	CMOS/LVTTL	+/- 24	4	180	8	-40 to 125
74LVC8T595	Dual supply 8-bit serial-in/serial-out or parallel-out shift register; 3-state	1.1 - 5.5	CMOS/ LVTTL	±24	4.1	15	8	-40 to 125
74VHC595	8-bit serial-in/parallel-out shift register with output storage register (3-state)	2.0 - 5.5	CMOS	+/- 8	4	170	8	-40 to 125
74VHCT595	8-bit serial-in/parallel-out shift register with output storage register; TTL enabled (3-state)	4.5 - 5.5	TTL	+/- 8	3.8	170	8	-40 to 125
HEF4014B	8-bit shift register with synchronous parallel enable	4.5 - 15	CMOS	+/- 2.4	40	40	8	-40 to 85
HEF4015B	dual 4-bit serial-in/parallel-out shift register	4.5 - 15	CMOS	+/- 2.4	40	44	2	-40 to 85
HEF4021B	8-bit shift register with asynchronous parallel load	4.5 - 15	CMOS	+/- 2.4	40	40	8	-40 to 85
HEF4094B	8-bit serial-in/serial or parallel-out shift register with output register (3-state)	4.5 - 15	CMOS	+/- 2.4	50	28	8	-40 to 85
HEF4794B	8-bit serial-in/serial or parallel-out shift register with output register LED driver (3-state)	4.5 - 15	CMOS	-20	45	28	8	-40 to 85
HEF4894B	12-bit serial-in/serial or parallel-out shift register with output register LED driver (3-state)	4.5 - 15	CMOS	-20	45	28	12	-40 to 85

Counters / Frequency dividers

Type number	Description	V _{CC} (V)	Output drive capability (mA)	Logic switching levels	t _{pd} (ns)	Output Load C _L (pF)	f _{max} (MHz)	T _{amb} (°C)
74AHC1G4208	08-stage divider and oscillator	2.0 - 5.5	±8	CMOS	14	15	165	-40 to 125
74AHC1G4210	10-stage divider and oscillator	2.0 - 5.5	±5.2	CMOS	17	15	125	-40 to 125
74AHC1G4212	12-stage divider and oscillator	2.0 - 5.5	±5.2	CMOS	20	15	125	-40 to 125
74AHC1G4214	14-stage divider and oscillator	2.0 - 5.5	±5.2	CMOS	23	15	125	-40 to 125
74AHC1G4215	14-stage divider and oscillator	2.0 - 5.5	± 8	CMOS	24	15	165	-40 to 125
74HC161	Presetable synchronous 4-bit binary counter; asynchronous reset	2.0 - 6.0	±5.2	CMOS	19	50	48	-40 to 125
74HC191	Presetable synchronous 4-bit binary up/down counter	2.0 - 6.0	±5.2	CMOS	22	50	36	-40 to 125
74HC193	Presetable synchronous 4-bit binary up/down counter; separate up/down clocks	2.0 - 6.0	±5.2	CMOS	20	50	49	-40 to 125
74HCT193	Presetable synchronous 4-bit binary up/down counter; separate up/down clocks; TTL-enabled	4.5 - 5.5	±4.0	TTL	20	50	43	-40 to 125
74HC390	Dual decade ripple counter	2.0 - 6.0	±5.2	CMOS	14	50	60	-40 to 125
74HCT390	Dual decade ripple counter; TTL-enabled	4.5 - 5.5	±4.0	TTL	18	50	55	-40 to 125
74HC393	Dual 4-bit binary ripple counter	2.0 - 6.0	±5.2	CMOS	12	50	107	-40 to 125
74HCT393	Dual 4-bit binary ripple counter; TTL-enabled	4.5 - 5.5	±4.0	TTL	20	50	53	-40 to 125
74HC4017	Johnson decade counter with 10 decoded outputs	2.0 - 6.0	±5.2	CMOS	18	50	77	-40 to 125
74HCT4017	Johnson decade counter with 10 decoded outputs; TTL-enabled	4.5 - 5.5	±4.0	TTL	21	50	67	-40 to 125
74HC4020	14-stage binary ripple counter	2.0 - 6.0	±5.2	CMOS	11	50	52	-40 to 125
74HCT4020	14-stage binary ripple counter; TTL-enabled	4.5 - 5.5	±4.0	TTL	15	50	52	-40 to 125
74HC4040	12-stage binary ripple counter	2.0 - 6.0	±5.2	CMOS	14	50	90	-40 to 125
74HCT4040	12-stage binary ripple counter; TTL-enabled	4.5 - 5.5	±4.0	TTL	16	50	79	-40 to 125
74HC4060	14-stage binary ripple counter with oscillator	2.0 - 6.0	±5.2	CMOS	31	50	95	-40 to 125
74HCT4060	14-stage binary ripple counter with oscillator; TTL-enabled	4.5 - 5.5	±4.0	TTL	31	50	88	-40 to 125
74HC4520	Dual 4-bit synchronous binary counter	2.0 - 6.0	±5.2	CMOS	24	50	64	-40 to 125
74HCT4520	Dual 4-bit synchronous binary counter; TTL-enabled	4.5 - 5.5	±4.0	TTL	24	50	64	-40 to 125
74HC40103	8-bit synchronous binary down counter	2.0 - 6.0	±5.2	CMOS	15	50	14	-40 to 125
74HC4024	7-stage binary ripple counter	2.0 - 6.0	±5.2	CMOS	14	50	90	-40 to 125
74HC590	8-bit binary counter with output register (3-state)	2.0 - 6.0	±5.2	CMOS	19	50	61	-40 to 125
74LV393	Dual 4-bit binary ripple counter	1.0 - 3.6	±6	TTL	12	50	90	-40 to 125
74LV4060	14-stage binary ripple counter with oscillator	1.0 - 5.5	±6	TTL	29	50	100	-40 to 125
74LVC161	Presetable synchronous 4-bit binary counter; asynchronous reset	1.2 - 3.6	±24	CMOS/ LVTTTL	4.9	50	200	-40 to 125
74LVC163	Presetable synchronous 4-bit binary counter; synchronous reset	1.2 - 3.6	±24	CMOS/ LVTTTL	4.9	50	200	-40 to 125
HEF4017B	Johnson decade counter with 10 decoded outputs	3.0 - 15	±2.4	CMOS	40	50	30	-40 to 85
HEF4020B	14-stage binary ripple counter	3.0 - 15	±2.4	CMOS	35	50	35	-40 to 85
HEF4040B	12-stage binary ripple counter	3.0 - 15	±2.4	CMOS	35	50	50	-40 to 85
HEF4060B	14-stage binary ripple counter with oscillator	3.0 - 15	±2.4	CMOS	50	50	30	-40 to 85
HEF4518B	Dual BCD counter	3.0 - 15	±2.4	CMOS	40	50	40	-40 to 85
HEF4520B	Dual 4-bit synchronous binary counter	3.0 - 15	±2.4	CMOS	15	50	40	-40 to 85
HEF4521B	24-stage frequency divider and oscillator	3.0 - 15	±2.4	CMOS	220	50	35	-40 to 85
HEF4541B	Programmable timer	3.0 - 15	- 4/ 2.7	CMOS	38	50	150	-40 to 85

Decoders and Demultiplexers

Type number	Description	V _{cc} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Output Load C _L (pF)	T _{amb} (°C)
74AHC138	3-to-8 line decoder/demultiplexer; inverting	2.0 - 5.5	CMOS	±8	4.4	50	-40 to 125
74AHC139	Dual 2-to-4 line decoder/demultiplexer	2.0 - 5.5	CMOS	±8	3.9	50	-40 to 125
74AHCT138	3-to-8 line decoder/demultiplexer; inverting; TTL-enabled	4.5 - 5.5	TTL	±8	4.4	50	-40 to 125
74AHCT139	Dual 2-to-4 line decoder/demultiplexer; TTL-enabled	4.5 - 5.5	TTL	±8	3.6	50	-40 to 125
74AUP1G18	1-to-2 demultiplexer (3-state)	1.1 - 3.6	CMOS	±1.9	3.2	30	-40 to 125
74AUP1G19	1-to-2 decoder/demultiplexer	1.1 - 3.6	CMOS	±1.9	3.0	30	-40 to 125
74HC137	3-to-8 line decoder/demultiplexer with address latches; inverting	2.0 - 6.0	CMOS	±5.2	18	50	-40 to 125
74HC138	3-to-8 line decoder/demultiplexer; inverting	2.0 - 6.0	CMOS	±5.2	12	50	-40 to 125
74HC139	Dual 2-to-4 line decoder/demultiplexer	2.0 - 6.0	CMOS	±5.2	14	50	-40 to 125
74HC154	4-to-16 line decoder/demultiplexer	2.0 - 6.0	CMOS	±5.2	11	50	-40 to 125
74HC237	3-to-8 decoder/demultiplexer with address latches	2.0 - 6.0	CMOS	±5.2	18	50	-40 to 125
74HC238	3-to-8 decoder/demultiplexer	2.0 - 6.0	CMOS	±5.2	14	50	-40 to 125
74HC42	BCD to decimal decoder (1-of-10)	2.0 - 6.0	CMOS	±5.2	17	50	-40 to 125
74HC4511	BCD to 7-segment latch/decoder/driver with lamp test input	2.0 - 6.0	CMOS	-10	28	50	-40 to 125
74HC4514	4-to-16 decoder/demultiplexer with address latches	2.0 - 6.0	CMOS	±5.2	27	50	-40 to 125
74HCT138	3-to-8 line decoder/demultiplexer; inverting; TTL-enabled	4.5 - 5.5	TTL	±4	19	50	-40 to 125
74HCT139	Dual 2-to-4 line decoder/demultiplexer; TTL-enabled	4.5 - 5.5	TTL	±4	16	50	-40 to 125
74HCT154	4-to-16 line decoder/demultiplexer; TTL-enabled	4.5 - 5.5	TTL	±4	13	50	-40 to 125
74HCT238	3-to-8 decoder/demultiplexer; TTL-enabled	4.5 - 5.5	TTL	±4	18	50	-40 to 125
74HCT4511	BCD to 7-segment latch/decoder/driver with lamp test input; TTL-enabled	4.5 - 5.5	TTL	-10	28	50	-40 to 125
74HCT4514	4-to-16 decoder/demultiplexer with address latches; TTL-enabled	4.5 - 5.5	TTL	±4	30	50	-40 to 125
74LV138	3-to-8 line decoder/demultiplexer; inverting	1.0 - 5.5	TTL	±12	12	50	-40 to 125
74LVC138A	3-to-8 line decoder/demultiplexer; inverting	1.2 - 3.6	CMOS/LVTTL	±24	2.7	50	-40 to 125
74LVC139	Dual 2-to-4 line decoder/demultiplexer	1.2 - 3.6	CMOS/LVTTL	±24	2.5	50	-40 to 125
74LVC1G18	1-to-2 demultiplexer (3-state)	1.65 - 5.5	CMOS/LVTTL	±32	2.3	50	-40 to 125
74LVC1G19	1-to-2 decoder/demultiplexer	1.65 - 5.5	CMOS/LVTTL	±32	1.8	50	-40 to 125
HEF4028B	1-of-10 decoder	3.0 - 15.0	CMOS	±2.4	30	50	-40 to 85
HEF4543B	BCD to 7-segment latch/decoder/driver with phase input	3.0 - 15.0	CMOS	±2.4	55	50	-40 to 85
HEF4555B	Dual 1-to-4 line decoder/demultiplexer	3.0 - 15.0	CMOS	±2.4	30	50	-40 to 85

Digital multiplexers

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	Output Load C _L (pF)	t _{pd} (ns)	T _{amb} (°C)
74AHC157	Quad 2-input multiplexer	2.0 - 5.5	CMOS	±8	50	3.2	-40 to 125
74AHC257	Quad 2-input multiplexer (3-state)	2.0 - 5.5	CMOS	±8	50	2.9	-40 to 125
74AHCT157	Quad 2-input multiplexer; TTL-enabled	4.5 - 5.5	TTL	±8	50	3.2	-40 to 125
74AHCT257	Quad 2-input multiplexer; TTL-enabled (3-state)	4.5 - 5.5	TTL	±8	50	3.7	-40 to 125
74AUP1G157	Single 2-input multiplexer	1.1 - 3.6	CMOS	±1.9	30	3.2	-40 to 125
74AUP1G158	Single 2-input multiplexer; inverting	1.1 - 3.6	CMOS	±1.9	30	3.2	-40 to 125
74AUP2G157	Single 2-input multiplexer	1.1 - 3.6	CMOS	±1.9	30	3.4	-40 to 125
74HC151	8-input multiplexer	2.0 - 6.0	CMOS	±5.2	50	17	-40 to 125
74HC153	Dual 4-input multiplexer	2.0 - 6.0	CMOS	±5.2	50	17	-40 to 125
74HC157	Quad 2-input multiplexer	2.0 - 6.0	CMOS	±5.2	50	11	-40 to 125
74HC251	8-input multiplexer (3-state)	2.0 - 6.0	CMOS	±5.2	50	18	-40 to 125
74HC253	Dual 4-input multiplexer (3-state)	2.0 - 6.0	CMOS	±7.8	50	17	-40 to 125
74HC257	Quad 2-input multiplexer (3-state)	2.0 - 6.0	CMOS	±7.8	50	11	-40 to 125
74HCT151	8-input multiplexer; TTL-enabled	4.5 - 5.5	TTL	±4	50	19	-40 to 125
74HCT153	Dual 4-input multiplexer; TTL-enabled	4.5 - 5.5	TTL	±4	50	19	-40 to 125
74HCT157	Quad 2-input multiplexer; TTL-enabled	4.5 - 5.5	TTL	±4	50	13	-40 to 125
74HCT251	8-input multiplexer; TTL-enabled (3-state)	4.5 - 5.5	TTL	±4	50	22	-40 to 125
74HCT253	Dual 4-input multiplexer; TTL-enabled (3-state)	4.5 - 5.5	TTL	±6	50	17	-40 to 125
74HCT257	Quad 2-input multiplexer; TTL-enabled (3-state)	4.5 - 5.5	TTL	±6	50	13	-40 to 125
74LVC157A	Quad 2-input multiplexer	1.2 - 3.6	CMOS/LVTTL	±24	50	2.5	-40 to 125
74LVC1G157	Single 2-input multiplexer	1.65 - 5.5	CMOS/LVTTL	±32	50	2.2	-40 to 125
74LVC257A	Quad 2-input multiplexer (3-state)	1.2 - 3.6	CMOS/LVTTL	±24	50	2.4	-40 to 125

Speciality logic

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Output Load C _L (pF)	F _{max} (MHz)	T _{amb} (°C)
74HC280	9-bit odd/even parity generator/checker	2.0 - 6.0	CMOS	±5.2	17	50		-40 to 125
74HCT280	9-bit odd/even parity generator/checker; TTL-enabled	4.5 - 5.5	TTL	±4	18	50		-40 to 125
74HC688	8-bit magnitude comparator	2.0 - 6.0	CMOS	±5.2	17	50		-40 to 125
74HCT688	8-bit magnitude comparator; TTL-enabled	4.5 - 5.5	TTL	±4	17	50		-40 to 125
74HC85	4-bit magnitude comparator	2.0 - 6.0	CMOS	±5.2	23	50		-40 to 125
74HCT85	4-bit magnitude comparator; TTL-enabled	4.5 - 5.5	TTL	±4	26	50		-40 to 125
74HC4046A	Phase-locked loop with VCO	3.0 - 6.0	CMOS	±5.2	18	50	21	-40 to 125
74HCT4046A	Phase-locked loop with VCO; TTL-enabled	4.5 - 5.5	TTL	±4	23	50	19	-40 to 125
HEF4046B	Phase-locked loop with VCO	3.0 - 15.0	CMOS	±2.4		50	2.7	-40 to 125

Specialty logic - Multivibrators

Type number	Description	V _{CC} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Output Load C _L (pF)	T _{amb} (°C)
74AHC123A	Dual retriggerable monostable multivibrator with reset	2.0 - 5.5	CMOS	±8	5.1	50	-40 to 125
74AHCT123A	Dual retriggerable monostable multivibrator with reset; TTL-enabled	4.5 - 5.5	TTL	±8	5.0	50	-40 to 125
74HC123	Dual retriggerable monostable multivibrator with reset	2.0 - 6.0	CMOS	±7.8	9.0	50	-40 to 125
74HCT123	Dual retriggerable monostable multivibrator with reset; TTL-enabled	4.5 - 5.5	TTL	±4	26	50	-40 to 125
74HCT221	dual non-retriggerable monostable multivibrator with reset; TTL-enabled	4.5 - 5.5	TTL	±4	32	50	-40 to 125
74HC423	Dual retriggerable monostable multivibrator with reset	2.0 - 6.0	CMOS	±5.2	23	50	-40 to 125
74HC4538	Dual retriggerable precision monostable multivibrator	2.0 - 6.0	CMOS	±5.2	27	50	-40 to 125
74HCT4538	Dual retriggerable precision monostable multivibrator; TTL-enabled	4.5 - 5.5	TTL	±4	30	50	-40 to 125
74LV123	Dual retriggerable monostable multivibrator with reset	1.0 - 5.5	TTL	±12	20	50	-40 to 125
74LVC1G123	Single retriggerable monostable multivibrator	1.65 - 5.5	CMOS/LVTTL	±32	3.5	50	-40 to 125
HEF4047B	Monostable/astable multivibrator	3.0 - 15	CMOS	±2.4	50	50	-40 to 85
HEF4528B	Dual retriggerable monostable multivibrator with reset	3.0 - 15	CMOS	±2.4	40	50	-40 to 85
HEF4538B	Dual retriggerable precision monostable multivibrator	3.0 - 15	CMOS	±2.4	60	50	-40 to 85

Voltage translators (level-shifters)

Uni-directional

Type number	Description	V _{CC(A)} (V)	V _{CC(B)} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Output Load C _L (pF)	Number of bits	T _{amb} (°C)
74AUP1T00	Single supply 2-input voltage-translating NAND gate	2.3 - 3.6	n.a.	CMOS	±4	3.8	15	1	-40 to 125
74AUP1T02	Single supply 2-input voltage-translating NOR gate	2.3 - 3.6	n.a.	CMOS	±4	3.8	15	1	-40 to 125
74AUP1T04	Single supply voltage-translating inverter	2.3 - 3.6	n.a.	CMOS	±4	3.7	15	1	-40 to 125
74AUP1T08	Single supply 2-input voltage-translating AND gate	2.3 - 3.6	n.a.	CMOS	±4	3.8	15	1	-40 to 125
74AUP1T14	Single supply voltage-translating inverter	2.3 - 3.6	n.a.	CMOS	±4	3.7	15	1	-40 to 125
74AUP1T17	Single supply voltage-translating buffer	2.3 - 3.6	n.a.	CMOS	±4	3.7	15	1	-40 to 125
74AUP1T32	Single supply 2-input voltage-translating OR gate	2.3 - 3.6	n.a.	CMOS	±4	3.7	15	1	-40 to 125
74AUP1T34	Single dual-supply translating buffer	1.1 - 3.6	n.a.	CMOS	±4	5.4	15	1	-40 to 125
74AUP1T45	Single dual-supply voltage-translating transceiver (3-state)	1.1 - 3.6	1.1 - 3.6	CMOS	±4	7.1	15	1	-40 to 125
74AUP1T50	Single supply voltage-translating buffer	2.3 - 3.6	n.a.	CMOS	±4	3.7	15	1	-40 to 125
74AUP1T57	Configurable gate with voltage-level translation	2.3 - 3.6	n.a.	CMOS	±4	3.9	15	1	-40 to 125
74AUP1T58	Configurable gate with voltage-level translation	2.3 - 3.6	n.a.	CMOS	±4	3.9	15	1	-40 to 125
74AUP1T86	Single supply 2-input voltage-translating XOR gate	2.3 - 3.6	n.a.	CMOS	±4	3.9	15	1	-40 to 125
74AUP1T87	Single supply 2-input voltage-translating XNOR gate	2.3 - 3.6	n.a.	CMOS	±4	4	15	1	-40 to 125
74AUP1T97	Configurable gate with voltage-level translation	2.3 - 3.6	n.a.	CMOS	±4	3.9	15	1	-40 to 125
74AUP1T98	Configurable gate with voltage-level translation	2.3 - 3.6	n.a.	CMOS	±4	3.9	15	1	-40 to 125
74AVC1T8128	Single dual-supply translating 2-input NOR with enable	0.8 - 3.6	0.8 - 3.6	CMOS/ LVTTTL	±12	4.9	15	1	-40 to 125
74AVC1T8832	Single dual-supply translating 2-input OR with strobe	0.8 - 3.6	0.8 - 3.6	CMOS/ LVTTTL	±12	2.4	15	1	-40 to 125
74AVC1T1004	1-to-4 fan out buffer	0.8 - 3.6	0.8 - 3.6	CMOS/ LVTTTL	±12	4.9	15	1	-40 to 125
74AVC1T1022	1-to-4 fan out buffer	0.8 - 3.6	0.8 - 3.6	CMOS/ LVTTTL	±12	4.0	30	1	-40 to 125
74AVC4T3144	4-bit dual-supply voltage-translating buffer (3-state)	0.8 - 3.6	0.8 - 3.6	CMOS/ LVTTTL	±12	4.6	15	4	-40 to 125
74LV1T00	2-input single supply translating NAND gate	1.6 - 5.5	n.a.	CMOS	±8	6.4	15	1	-40 to 125
74LV1T02	2-input single supply translating NOR gate	1.6 - 5.5	n.a.	CMOS	±8	6.6	15	1	-40 to 125
74LV1T04	Single supply translating inverter	1.6 - 5.5	n.a.	CMOS	±8	6.2	15	1	-40 to 125
74LV1T08	2-input single supply translating AND gate	1.6 - 5.5	n.a.	CMOS	±8	6.5	15	1	-40 to 125
74LV1T32	2-input single supply translating OR gate	1.6 - 5.5	n.a.	CMOS	±8	6.6	15	1	-40 to 125
74LV1T34	Single supply translating buffer	1.6 - 5.5	n.a.	CMOS	±8	6.3	15	1	-40 to 125
74LV1T86	2-input single supply translating X-OR gate	1.6 - 5.5	n.a.	CMOS	±8	7.3	15	1	-40 to 125
74LV1T87	2-input single supply translating X-NOR gate	1.6 - 5.5	n.a.	CMOS	±8	7.3	15	1	-40 to 125
74LV1T125	Single supply translating buffer (3-state)	1.6 - 5.5	n.a.	CMOS	±8	6.5	15	1	-40 to 125
74LV1T126	Single supply translating buffer (3-state)	1.6 - 5.5	n.a.	CMOS	±8	6.5	15	1	-40 to 125
74LVC4T3144	4-bit dual supply translating buffer; 3-state	1.2 - 5.5	1.2 - 5.5	CMOS	±24	13.2	15	4	-40 to 125
74LVC8T595	Dual supply 8-bit serial-in/serial-out or parallel-out shift register (3-state)	1.1 - 5.5	1.1 - 5.5	CMOS/ LVTTTL	±24	4.1	15	8	-40 to 125
HEF4104B	Quad low-to-high voltage translator (3-state)	3.0 - 15	3.0 - 15	CMOS	±2.4	170	50	16	-40 to 85
NXU0101	1-bit dual-supply buffer/level translator with Schmitt-trigger	0.09 - 5.5	0.09 - 5.5	CMOS/LVTTTL	+/-12	4.5	15	1	-40 to 125
NXU0102	2-bit dual-supply buffer/level translator with Schmitt-trigger	0.09 - 5.5	0.09 - 5.5	CMOS/LVTTTL	+/-12	4.5	15	2	-40 to 125
NXU0202	2-bit dual-supply buffer/level translator with Schmitt-trigger	0.09 - 5.5	0.09 - 5.5	CMOS/LVTTTL	+/-12	4.5	15	2	-40 to 125
NXU1014	4-bit dual-supply voltage level translating buffer with Schmitt-trigger	0.09 - 5.5	0.09 - 5.5	CMOS/LVTTTL	+/-12	4.5	15	4	-40 to 125
NXU0204	4-bit dual-supply voltage level translating buffer with Schmitt-trigger	0.09 - 5.5	0.09 - 5.5	CMOS/LVTTTL	+/-12	4.5	15	4	-40 to 125
NXU0304	4-bit dual-supply voltage level translating buffer with Schmitt-trigger	0.09 - 5.5	0.09 - 5.5	CMOS/LVTTTL	+/-12	4.5	15	4	-40 to 125

Direction controlled

Type number	Description	V _{CC(A)} (V)	V _{CC(B)} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Output Load C _L (pF)	Number of bits	T _{amb} (°C)
74ALVC164245	16-bit dual-supply voltage-translating transceiver (3-state)	1.5 - 5.5	1.5 - 3.6	CMOS/ LVTTTL	±24	2.9	50	16	-40 to 85
74AVC1T45	Single dual-supply voltage-translating transceiver (3-state)	0.8 - 3.6	0.8 - 3.6	CMOS/ LVTTTL	±12	2.1	15	1	-40 to 125
74AVC2T245	Dual-bit dual-supply voltage-translating transceiver (3-state)	0.8 - 3.6	0.8 - 3.6	CMOS/ LVTTTL	±12	2.1	15	2	-40 to 125
74AVC2T45	Dual-bit dual-supply voltage-translating transceiver (3-state)	0.8 - 3.6	0.8 - 3.6	CMOS/ LVTTTL	±12	2.1	15	2	-40 to 125
74AVC4T245	4-bit dual-supply voltage-translating transceiver (3-state)	0.8 - 3.6	0.8 - 3.6	CMOS/ LVTTTL	±12	2.1	15	4	-40 to 125
74AVC4T774	4-bit dual-supply voltage-translating bus transceiver (3-state)	0.8 - 3.6	0.8 - 3.6	CMOS/ LVTTTL	±12	2.1	15	4	-40 to 125
74AVC4TD245	4-bit dual-supply voltage-translating transceiver (3-state)	0.8 - 3.6	0.8 - 3.6	CMOS/ LVTTTL	±12	2.1	15	4	-40 to 125
74AVC8T245	8-bit dual-supply voltage-translating transceiver (3-state)	0.8 - 3.6	0.8 - 3.6	CMOS/ LVTTTL	±12	2.1	15	8	-40 to 125
74AVC16T245	16-bit dual-supply voltage-translating transceiver (3-state)	0.8 - 3.6	0.8 - 3.6	CMOS/ LVTTTL	±12	2.1	15	16	-40 to 125
74AVC20T245	20-bit dual-supply voltage-translating transceiver (3-state)	0.8 - 3.6	0.8 - 3.6	CMOS/ LVTTTL	±12	2.1	15	20	-40 to 125
74AVCH1T45	Single dual-supply voltage-translating transceiver with bus hold (3-state)	0.8 - 3.6	0.8 - 3.6	CMOS/ LVTTTL	±12	2.1	15	1	-40 to 125
74AVCH2T45	Dual-bit dual-supply voltage-translating transceiver with bus hold (3-state)	0.8 - 3.6	0.8 - 3.6	CMOS/ LVTTTL	±12	2.1	15	2	-40 to 125
74AVCH4T245	4-bit dual-supply voltage-translating transceiver with bus hold (3-state)	0.8 - 3.6	0.8 - 3.6	CMOS/ LVTTTL	±12	2.1	15	4	-40 to 125
74AVCH8T245	8-bit dual-supply voltage-translating transceiver with bus hold (3-state)	0.8 - 3.6	0.8 - 3.6	CMOS/ LVTTTL	±12	2.1	15	8	-40 to 125
74AVCH16T245	16-bit dual-supply voltage-translating transceiver with bus hold (3-state)	0.8 - 3.6	0.8 - 3.6	CMOS/ LVTTTL	±12	2.1	15	16	-40 to 125
74AVCH20T245	20-bit dual-supply voltage-translating transceiver with bus hold (3-state)	0.8 - 3.6	0.8 - 3.6	CMOS/ LVTTTL	±12	2.1	15	20	-40 to 125
AXP1T34	1-bit dual supply translating buffer (3-state)	0.9 - 5.5	0.9 - 5.5	CMOS	±12	9	5	1	-40 to 125
74AXP1T45	1-bit dual supply translating transceiver; 3-state	0.9 - 5.5	0.9 - 5.5	CMOS	±12	9.0	5	1	-40 to 125
74AXP2T45	2-bit dual supply translating transceiver; 3-state	0.9 - 5.5	0.9 - 5.5	CMOS	±12	9.0	5	2	-40 to 125
74AXP4T245	4-bit dual supply translating transceiver; 3-state	0.9 - 5.5	0.9 - 5.5	CMOS	±12	9.0	5	4	-40 to 125
74AXP8T245	8-bit dual supply translating transceiver; 3-state	0.9 - 5.5	0.9 - 5.5	CMOS	±12	9.0	5	8	-40 to 125
74LVC1T45	Single dual-supply voltage-translating transceiver (3-state)	1.2 - 5.5	1.2 - 5.5	CMOS/ LVTTTL	±24	2.5	50	1	-40 to 125
74LVC2T45	Dual-bit dual-supply voltage-translating transceiver (3-state)	1.2 - 5.5	1.2 - 5.5	CMOS/ LVTTTL	±24	2.5	50	2	-40 to 125
74LVC4245A	8-bit dual-supply voltage-translating transceiver (3-state)	1.5 - 5.5	1.5 - 3.6	CMOS/ LVTTTL	±24	3.5	50	8	-40 to 125
74LVC8T245	8-bit dual-supply voltage-translating transceiver (3-state)	1.2 - 5.5	1.2 - 5.5	CMOS/ LVTTTL	±24	3.5	50	8	-40 to 125
74LVCH1T45	Single dual-supply voltage-translating transceiver with bus hold (3-state)	1.2 - 5.5	1.2 - 5.5	CMOS/ LVTTTL	±24	2.5	50	1	-40 to 125
74LVCH2T45	Dual-bit dual-supply voltage-translating transceiver with bus hold (3-state)	1.2 - 5.5	1.2 - 5.5	CMOS/ LVTTTL	±24	2.5	50	2	-40 to 125
74LVCH8T245	8-bit dual-supply voltage-translating transceiver with bus hold (3-state)	1.2 - 5.5	1.2 - 5.5	CMOS/ LVTTTL	±24	3.5	50	8	-40 to 125

Voltage translators (level-shifters)

Auto direction (Autosense)

Type number	Description	V _{CC(A)} (V)	V _{CC(B)} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Output Load C _L (pF)	Number of bits	T _{amb} (°C)
LSF0101	1-bit bidirectional multi-voltage level translator; open-drain; push-pull	0.95 - 5.0	0.95 - 5.0	CMOS	+64	0.7	30	1	-40 to 125
LSF0102	2-bit bidirectional multi-voltage level translator; open-drain; push-pull	0.95 - 5.0	0.95 - 5.0	CMOS	+64	0.7	30	2	-40 to 125
LSF0202	2-bit bidirectional multi-voltage level translator; open-drain; push-pull	0.95 - 5.0	0.95 - 5.0	CMOS	+ 64	0.7	30	2	-40 to 125
LSF0204	4-bit bidirectional multi-voltage level translator; open-drain; push-pull	0.95 - 5.0	0.95 - 5.0	CMOS	+64	0.6	30	4	-40 to 125
LSF0108	8-bit bidirectional multi-voltage level translator; open-drain; push-pull	0.95 - 5.0	0.95 - 5.0	CMOS	+64	1.4	30	8	-40 to 125
NCA9306	2-bit bidirectional multi-voltage level translator; open-drain; push-pull	0.95 - 5.0	0.95 - 5.0	CMOS	+64	0.4	30	2	-40 to 125
NCA9700	Level translating Fm+ I ² C bus repeater/accelerator	1.08 - 3.6	1.08 - 3.6	CMOS	+/- 0.02	14	160	2	-40 to 85
NCA9701A	Level translating Fm+ I ² C bus repeater/accelerator	1.08 - 3.6	1.08 - 3.6	CMOS	+/- 0.02	14	160	2	-40 to 85
NXB0101	1-bit Dual supply translating transceiver; auto direction sensing (3-state)	1.2 - 3.6	1.65 - 5.5	CMOS	± 0.02	5.5	15	1	-40 to 125
NXB0102	2-bit Dual supply translating transceiver; auto direction sensing (3-state)	1.2 - 3.6	1.65 - 5.5	CMOS	± 0.02	5.5	15	2	-40 to 125
NXB0104	4-bit Dual supply translating transceiver; auto direction sensing (3-state)	1.2 - 3.6	1.65 - 5.5	CMOS	± 0.02	5.5	15	4	-40 to 125
NXB0106	6-bit Dual supply translating transceiver; auto direction sensing (3-state)	1.2 - 3.6	1.65 - 5.5	CMOS	± 0.02	5.5	15	6	-40 to 125
NXB0108	8-bit Dual supply translating transceiver; auto direction sensing (3-state)	1.2 - 3.6	1.65 - 5.5	CMOS	± 0.02	5.5	15	8	-40 to 125
NXS0101	1-bit Dual supply translating transceiver; open drain; auto direction sensing	1.65 - 3.6	2.3 - 5.5	CMOS	- 0.02 / 1.0	4.7	15	1	-40 to 125
NXS0102	2-bit Dual supply translating transceiver; open drain; auto direction sensing	1.65 - 3.6	2.3 - 5.5	CMOS	- 0.02 / 1.0	5.2	15	2	-40 to 125
NXS0104	4-bit Dual supply translating transceiver; open drain; auto direction sensing	1.65 - 3.6	2.3 - 5.5	CMOS	- 0.02 / 1.0	6	15	4	-40 to 125
NXS0108	8-bit Dual supply translating transceiver; open drain; auto direction sensing	1.65 - 3.6	2.3 - 5.5	CMOS	- 0.02 / 1.0	6.3	15	8	-40 to 125

Application specific

Type number	Description	V _{CC(A)} (V)	V _{CC(B)} (V)	Logic switching levels	Output drive capability (mA)	t _{pd} (ns)	Output Load C _L (pF)	Number of bits	T _{amb} (°C)
NXS0506	SD 3.0-compatible memory card integrated auto-direction control and level translator with EMI filter and ESD protection	1.1 - 1.95	1.7 - 3.6	CMOS	± 2	2.6	15	6	-40 to 85
NXT4556	SIM card interface level translator without enable pin	1.08 - 1.98	1.62 - 3.3	CMOS	± 1	20	50	3	-40 to 85
NXT4556A	SIM card interface level translator without enable pin	1.08 - 1.98	1.62 - 3.3	CMOS	± 1	20	50	3	-40 to 85
NXT4557	SIM card interface level translator with enable pin	1.08 - 1.98	1.62 - 3.3	CMOS	± 1	20	50	3	-40 to 85
NXT4558	SIM card interface level translator with enable pin	1.08 - 1.98	1.62 - 3.3	CMOS	± 1	20	50	3	-40 to 85
NXT4559	SIM card interface level translator with enable pin	1.08 - 1.98	1.62 - 3.3	CMOS	± 1	20	50	3	-40 to 85

Analog switches

Type number	Description	V _{CC} (V)	Logic switching levels	R _{ON} (Ω)	R _{ON(FLAT)} (Ω)	f _(-3dB) (MHz)	T _{HD} (%)	X _{talk} (dB)	T _{amb} (°C)
74AHC1G66	Single-pole, single-throw analog switch	2.0 - 5.5	CMOS	40	14	280	0.015		-40 to 125
74AHC1G66	Single-pole, single-throw analog switch; TTL-enabled	4.5 - 5.5	TTL	40	14	280	0.015		-40 to 125
74HC1G66	Single-pole, single-throw analog switch	2.0 - 9.0	CMOS	105	23	200	0.02		-40 to 125
74HC2G66	Dual single-pole, single-throw analog switch	2.0 - 9.0	CMOS	105	23	200	0.02	-60	-40 to 125
74HC4051	Single-pole, octal-throw analog switch	2.0 - 10	CMOS	200	20	180	0.02		-40 to 125
74HC4052	Dual single-pole, quad-throw analog switch	2.0 - 10	CMOS	200	20	180	0.02	-60	-40 to 125
74HC4053	Triple single-pole, double-throw analog switch	2.0 - 10	CMOS	200	20	170	0.02	-60	-40 to 125
74HC4066	Quad single-pole, single-throw analog switch	2.0 - 10	CMOS	105	23	200	0.02	-60	-40 to 125
74HC4067	Single-pole, 16-throw analog switch	2.0 - 10	CMOS	200	25	100	0.02		-40 to 125
74HC4316	Quad single-pole, single-throw analog switch with translation	2.0 - 10	CMOS	300	80	160	0.4	-60	-40 to 125
74HC4351	Single-pole, octal-throw analog switch with latch	2.0 - 10	CMOS	200	20	180	0.02		-40 to 125
74HC4851	Single-pole, octal-throw analog switch	2.0 - 10	CMOS	220					-40 to 125
74HC4852	Dual single-pole, quad-throw analog switch; TTL-enabled	2.0 - 10	CMOS	220					-40 to 125
74HCT1G66	Single-pole, single-throw analog switch; TTL-enabled	4.5 - 5.5	TTL	118	23	180	0.04		-40 to 125
74HCT2G66	Dual single-pole, single-throw analog switch; TTL-enabled	4.5 - 5.5	TTL	118	23	180	0.04	-60	-40 to 125
74HCT4051	Single-pole, octal-throw analog switch; TTL-enabled	4.5 - 5.5	TTL	225	20	170	0.04		-40 to 125
74HCT4052	Dual single-pole, quad-throw analog switch; TTL-enabled	4.5 - 5.5	TTL	225	20	170	0.04	-60	-40 to 125
74HCT4053	Triple single-pole, double-throw analog switch; TTL-enabled	4.5 - 5.5	TTL	225	20	160	0.04		-40 to 125
74HCT4066	Quad single-pole, single-throw analog switch; TTL-enabled	4.5 - 5.5	TTL	118	23	180	0.04	-60	-40 to 125
74HCT4067	Single-pole, 16-throw analog switch; TTL-enabled	4.5 - 5.5	TTL	225	25	90	0.04		-40 to 125
74HCT4316	Quad single-pole, single-throw analog switch with translation; TTL-enabled	4.5 - 5.5	TTL	400	50	150	0.8	-60	-40 to 125
74HCT4351	Single-pole, octal-throw analog switch with latch; TTL-enabled	4.5 - 5.5	TTL	225	20	170	0.04		-40 to 125
74HCT4851	Single-pole, octal-throw analog switch; TTL-enabled	4.5 - 5.5	TTL	240					-40 to 125
74HCT4852	Dual single-pole, quad-throw analog switch; TTL-enabled	4.5 - 5.5	TTL	240					-40 to 125
74LV4051	Single-pole, octal-throw analog switch	1.0 - 6.0	TTL	135	35	200	0.4	-60	-40 to 125
74LV4052	Dual single-pole, quad-throw analog switch	1.0 - 6.0	TTL	125	15	180	0.4	-60	-40 to 125
74LV4053	Triple single-pole, double-throw analog switch	1.0 - 6.0	TTL	150	30	180	0.4	-60	-40 to 125
74LV4066	Quad single-pole, single-throw analog switch	1.0 - 6.0	TTL	50	3.0	180	0.02	-60	-40 to 125
74LVC1G3157	Single-pole, double-throw analog switch	1.65 - 5.5	CMOS/LVTTL	15	1.5	300	0.078		-40 to 125
74LVC1G384	Single-pole, single-throw analog switch	1.65 - 5.5	CMOS/LVTTL	15	1.5	440	0.001		-40 to 125
74LVC1G53	Single-pole, double-throw analog switch	1.65 - 5.5	CMOS/LVTTL	15	1.5	300	0.078		-40 to 125
74LVC1G66	Single-pole, single-throw analog switch	1.65 - 5.5	CMOS/LVTTL	15	1.5	440	0.001		-40 to 125
74LVC2G3157	Dual single-pole, double-throw analog switch	1.65 - 5.5	CMOS/LVTTL	15	1.5	300	0.078	-54	-40 to 125
74LVC2G53	Single-pole, double-throw analog switch	1.65 - 5.5	CMOS/LVTTL	15	1.5	300	0.078		-40 to 125
74LVC2G66	Dual single-pole, single-throw analog switch	1.65 - 5.5	CMOS/LVTTL	15	1.5	440	0.005	-56	-40 to 125
74LVC4066	Quad single-pole, single-throw analog switch	1.65 - 5.5	CMOS/LVTTL	15	1.5	440	0.005	-58	-40 to 125
74LVCV2G66	Dual single-pole, single-throw analog switch; overvoltage tolerant	2.3 - 5.5	CMOS/LVTTL	15	3.0	210	0.01	-55	-40 to 125
HEF4016B	Quad single-pole, single-throw analog switch	3.0 - 15	CMOS	350	65	90	0.04	-50	-40 to 85
HEF4051B	Single-pole, octal-throw analog switch	3.0 - 15	CMOS	175	30	70	0.04	-50	-40 to 85
HEF4052B	Dual single-pole, quad-throw analog switch	3.0 - 15	CMOS	175	30	70	0.04	-50	-40 to 85
HEF4053B	Triple single-pole, double-throw analog switch	3.0 - 15	CMOS	175	30	70	0.04	-50	-40 to 85
HEF4066B	Quad single-pole, single-throw analog switch	3.0 - 15	CMOS	175	20	90	0.04	-50	-40 to 85
HEF4067B	Single-pole, 16-throw analog switch	3.0 - 15	CMOS	175	20	13	0.04	-50	-40 to 85
XS3A1T5157	Low-ohmic single-pole double-throw analog switch	1.4 - 4.3	CMOS/LVTTL	0.5	0.2	40	0.03	-90	-40 to 125
XS3A1T3157	Low-ohmic single-pole double-throw analog switch	1.4 - 4.3	CMOS/LVTTL	0.5	0.2	40	0.03	-90	-40 to 125
XS3A2467	Dual Low-ohmic dual-pole dual-throw Analog Switch	1.4 - 4.3	CMOS/LVTTL	0.5	0.2	40	0.04	-90	-40 to 125
XS3A4051	Low-ohmic single-pole octal-throw Analog Switch	1.4 - 4.3	CMOS/LVTTL	0.5	0.2	15	0.04	-90	-40 to 125
XS3A4052	Low-ohmic dual-pole quad-throw Analog Switch	1.4 - 4.3	CMOS/LVTTL	0.5	0.13	25	0.04	-90	-40 to 125
XS3A4053	Triple Low-ohmic single-pole dual-throw Analog Switch	1.4 - 4.3	CMOS/LVTTL	0.5	0.13	40	0.04	-90	-40 to 125
XS5A1T4157	Single-pole double-throw analog switch	4.5 - 5.5	CMOS/LVTTL	4	0.9	190	-	-76	-40 to 125
NMUX1237	Single-pole double-throw analog switch; overshoot control	1.08 - 5.5	CMOS	4	1	196		-77	-40 to 125
NMUX1308	Single-pole octal-throw analog switch; injection current control	1.5 - 5.5	CMOS	60	-	325	-	-105	-40 to 125
NMUX1309	Dual single-pole quad-throw analog switch; injection current control	1.5 - 5.5	CMOS	60	-	380	-	-105	-40 to 125

Bus switches

Type number	Description	V _{CC} (V)	V _{PASS} (V)	Logic switching levels	R _{ON} (Ω)	f _(-3dB) (MHz)	Number of bits	t _{pd} (ns)	T _{amb} (°C)
74CBTLV1G125	Single bus switch	2.3 - 3.6	3.3	CMOS/LVTTL	7	400	1	0.2	-40 to 125
74CBTLV3125	Quad bus switch	2.3 - 3.6	3.3	CMOS/LVTTL	7	400	4	0.2	-40 to 125
74CBTLV3126	Quad bus switch	2.3 - 3.6	3.3	CMOS/LVTTL	7	400	4	0.2	-40 to 125
74CBTLV3244	Octal bus switch	2.3 - 3.6	3.3	CMOS/LVTTL	7	400	8	0.2	-40 to 125
74CBTLV3245	Octal bus switch	2.3 - 3.6	3.3	CMOS/LVTTL	7	400	8	0.2	-40 to 125
74CBTLV3306	2-bit bus switch	2.3 - 3.6	5.0	CMOS/LVTTL	7	400	2	0.2	-40 to 125
74CBTLV3384	10-bit bus switch	2.3 - 3.6	3.3	CMOS/LVTTL	7	400	10	0.2	-40 to 125
74CBTLV3861	10-bit bus switch	2.3 - 3.6	3.3	CMOS/LVTTL	7	400	10	0.2	-40 to 125
74CBTLVD3244	Octal bus switch level translator	3.0 - 3.6	1.8	CMOS/LVTTL	7	400	8	0.2	-40 to 125
74CBTLVD3245	Octal bus switch level translator	3.0 - 3.6	1.8	CMOS/LVTTL	7	400	8	0.2	-40 to 125
74CBTLVD3384	10-bit bus switch level translator	3.0 - 3.6	1.8	CMOS/LVTTL	7	400	10	0.2	-40 to 125
74CBTLVD3861	10-bit bus switch level translator	3.0 - 3.6	1.8	CMOS/LVTTL	7	400	10	0.2	-40 to 125
CBT3306	Dual bus switch	4.5 - 5.5	3.9	TTL	7	300	2	0.25	-40 to 85
CBT3384	10-bit bus switch	4.5 - 5.5	3.9	TTL	7	300	10	0.25	-40 to 85
CBTD3306	Dual bus switch level translator	4.5 - 5.5	3.3	TTL	7	300	2	0.25	-40 to 85
CBTD3384	10-bit bus switch level translator	4.5 - 5.5	3.3	TTL	7	300	10	0.25	-40 to 85

Multiplexer / Demultiplexer

Type number	Description	V _{CC} (V)	V _{PASS} (V)	Logic switching levels	R _{ON} (Ω)	f _(-3dB) (MHz)	Number of bits	t _{pd} (ns)	T _{amb} (°C)
74CB3Q3253	Dual 1-of-4 FET multiplexer/demultiplexer with charge pump	2.3 - 3.6	VCC	CMOS/LVTTL	4	500	2	0.2	-40 to 85
74CB3Q3257	Quad 1-of-2 FET multiplexer/demultiplexer with charge pump	2.3 - 3.6	VCC	CMOS/LVTTL	4	500	4	0.2	-40 to 85
74CBTLV3253	Dual 4:1 mux/demux	2.3 - 3.6	3.3	CMOS/LVTTL	7	400	2	0.2	-40 to 125
74CBTLV3257	Quad 2:1 mux/demux	2.3 - 3.6	3.3	CMOS/LVTTL	7	400	4	0.2	-40 to 125
CBT3251	8:1 mux/demux	4.5 - 5.5	3.9	TTL	7	300	8	0.25	-40 to 85
CBT3253A	Dual 4:1 mux/demux	4.5 - 5.5	3.9	TTL	7	300	2	0.25	-40 to 85
CBT3257A	Quad 2:1 mux/demux	4.5 - 5.5	3.9	TTL	7	300	4	0.25	-40 to 85

I²C General Purpose I/O (GPIO)

Type number	Description	V _{cc} (A) (V)	V _{cc} (B) (V)	Logic switching levels	Power dissipation considerations	Output drive capability (mA)	Number of bits	T _{amb} (°C)
NCA9535	Low-voltage 16-Bit I ² C and SMBus low-power I/O expander with interrupt output and configuration registers	1.65 - 5.5	n.a.	CMOS	low	- 10 / 25	16	-40 to 85
NCA9539	Low-voltage 16-Bit I ² C and SMBus low-power I/O expander with interrupt output, reset pin and configuration registers	1.65 - 5.5	n.a.	CMOS	low	- 10 / 25	16	-40 to 85
NCA9555	Low-voltage 16-bit I ² C and SMBus I/O expander with interrupt output and configuration registers	1.65 - 5.5	n.a.	CMOS	low	- 10 / 25	16	-40 to 85
NCA9595	Low voltage 16-Bit I ² C and SMBus I/O expander with interrupt output, configuration registers and programmable pull-up resistors	1.65 - 5.5	n.a.	CMOS	low	- 10 / 25	16	-40 to 85
PCA9535	Low-voltage 16-bit I ² C and SMBus low-power I/O expander with interrupt output and configuration registers	2.3 - 5.5	n.a.	CMOS	low	- 10 / 25	16	-40 to 85
PCA9539	Low-voltage 16-bit I ² C and SMBus low-power I/O expander with interrupt output, reset pin and configuration registers	2.3 - 5.5	n.a.	CMOS	low	- 10 / 25	16	-40 to 85
PCA9555	Low-voltage 16-bit I ² C and SMBus I/O expander with interrupt output and configuration registers	2.3 - 5.5	n.a.	CMOS	low	- 10 / 25	16	-40 to 85

Transformer drivers

Type number	Description	Features															Package (suffix)				
		Minimum Input Voltage (V)	Maximum Input Voltage (V)	Maximum Output Current (A)	Enable Pin	Short-Circuit Protection	Soft-Start	Break-Before-Make Circuitry	Slew-Rate Control	Spread-Spectrum Clocking	Thermal Shutdown	Fail-Safe Inputs	Under-Voltage Lockout	External Clock Support	Minimum Switching Frequency (kHz)	Maximum Switching Frequency (kHz)	Package Type	Pin Count	Package Area (mm ²)	Package Size (mm)	Package Code
NXF6505ADA-Q100	Low-noise 1.2 A transformer driver for isolated power supplies	2.25	5.5	1.2	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	139	209	TSOT23-6	6	8.12	2.9 x 2.8	SOT8061-1
NXF6505BDA-Q100	Low-noise 1.2 A transformer driver for isolated power supplies	2.25	5.5	1.2	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	374	511	TSOT23-6	6	8.12	2.9 x 2.8	SOT8061-1
NXF6501DC-Q100	Low-noise 1.2 A transformer driver for isolated power supplies	2.25	5.5	1.2	N	Y	Y	Y	Y	Y	Y	Y	Y	N	300	620	TSOT23-5	5	8.12	2.9 x 2.8	SOT8098-1

IC's - Battery booster

Type number	Description	Features								Package (suffix)
		V _{BAT} (V)	I _O ACT mode (mA)	I _{CH} (mA)	I _O standby mode (nA)	Include interface	Capacitor Balance pin	Auto Start mode	T _{amb} (°C)	SOT763-1 (BQ)
NBM5100A	Lithium primary battery life booster with adaptive power optimization	2.4 - 3.6	150	2 / 16	50	I ² C	Y	Y	-40~85	•
NBM5100B	Lithium primary battery life booster with adaptive power optimization	2.4 - 3.6	150	2 / 16	50	SPI	Y	N	-40~85	•
NBM7100A	Lithium primary battery life booster with adaptive power optimization	2.4 - 3.6	200	2 / 16	50	I ² C	N	Y	-40~85	•
NBM7100B	Lithium primary battery life booster with adaptive power optimization	2.4 - 3.6	200	2 / 16	50	SPI	N	N	-40~85	•
NBM7100A-Q100	Lithium primary battery life booster with adaptive power optimization	2.4 - 3.6	200	2 / 16	50	I ² C	N	Y	-40~85	•
NBM7100B-Q100	Lithium primary battery life booster with adaptive power optimization	2.4 - 3.6	200	2/16	50	I ² C	N	N	-40~85	•

Power management IC's - Energy harvesting

Type number	Description	Features							Package (suffix)
		V _{BAT(min)} (V)	V _{IN} (V)	I _{STBY(min)} / I _{STBY (max)} (nA)	P _{IN(min)} / P _{IN(max)} (mW)	f _{CONV(min)} / f _{CONV(min)} (MHz)	t _{MPPT} (s)	T _{amb} (°C)	
NEH2000BY	Energy harvesting PMIC	2.5	1.65	625/1150	0.035 / 2	0.05 / 1.8	0.7	-40~85	SOT8076-1 (BY)
NEH7100BU	Energy harvesting PMIC with battery protection, LDO, USB charging and I ₂ C	0	0.27	1500 / 5000	0.015 / 50	0.03 / 1.1	0.5	-40~85	SOT8080-1
NEH7110BU	Energy harvesting PMIC with battery protection, LDO and USB charging	0	0.27	1500 / 5000	0.015 / 50	0.03 / 1.1	1	-40~85	SOT8080-1

LCD bias

Type number	Description	Features										Package (suffix)
		V _{in} range	Pos Output range	Neg Output range	I _q Standby	I _q Shutdown	Output Accuracy	Maximum I _{out}	I ² C	Efficiency	Protection	SOT8076-1 (BY)
NEX10000UB	80mA dual channel LCD bias	2.7V-5V	4V-6V (0.1V Step)	4V-6V (0.1V Step)	0.73mA	0.5uA	1%	80mA	Yes	86% I _{out} =40mA	UVLO/OTSD/ OCP	CSP 1.155x1.955-15
NEX10000AUB	120mA dual channel LCD bias	2.7V-5V	4V-6.5V (0.1V Step)	4V-6.5V (0.1V Step)	0.73mA	0.5uA	1%	120mA	Yes	86% I _{out} =40mA	UVLO/OTSD/ OCP	CSP 1.155x1.955-15
NEX10001UB	220mA dual channel LCD bias	2.7V-5V	4V-6.5V (0.1V Step)	-4V- -6.5V (0.1V Step)	0.73mA	0.5uA	1%	220mA	Yes	85% I _{out} =80mA	UVLO/OTSD/ OCP	CSP 1.155x1.955-15

Automotive LED Driver

Types in **bold** represent new products

Type number	Description	Channel	Features									
			Input voltage range	Output Current	Function Safety	Output current accuracy	Interface	Data rate	Dropout voltage (typ.)	Protection	Ambient temperature range TA	Package
NEX13120PC-Q100	12 Channel, 40V, 100mA/CH, Linear LED Driver	12	3.8-36V(Vs)	100mA/CH	ASIL-B capable	+5%	UART	2Mbps	600mV@100mA	LED Open/short/single short	-40C to 125C	HTSSOP-24
NEX13120FPC-Q100	12 Channel, 40V, 100mA/CH, Linear LED Driver	12	3.8-36V(Vs)	100mA/CH	ASIL-B compliant	+5%	UART	2Mbps	600mV@100mA	LED Open/short/single short	-40C to 125C	HTSSOP-24

Load Switch

Type number	Description	Features													Package (suffix)			
		Minimum Input Voltage (V)	Maximum Input Voltage (V)	Absolute Maximum Input Voltage (V)	Typical On-resistance (mohm)	Rated Current (A)	Current Limit (A)	Enable	Over Current Protection	Over temperature protection	Inrush current control	Reverse Voltage Blocking	AEC-Q100 Qualified	Thermal Fault Response	Package Suffix	Package Type	Package Size (mm)	Package Code
NPS4053	5.5 V, 55 mΩ load switch with precision adjustable current limit	2.5	5.5	6	55	2	0.11 - 2.5	Active High	Y	Y	Y	Y		Auto-Retry	GV	TSOP6	2.9 x 1.5	SOT457
NPS4053-Q100	5.5 V, 55 mΩ, Automotive, load switch with precision adjustable current limit	2.5	5.5	6	55	2	0.11 - 2.5	Active High	Y	Y	Y	Y	Y	Auto-Retry	GV	TSOP6	2.9 x 1.5	SOT457
NPS4053	5.5 V, 55 mΩ load switch with precision adjustable current limit	2.5	5.5	6	55	2	0.11 - 2.5	Active High	Y	Y	Y	Y		Auto-Retry	GH	HWSON6	2 x 2	SOT8044-1
NPS4053-Q100	5.5 V, 55 mΩ, Automotive, load switch with precision adjustable current limit	2.5	5.5	6	55	2	0.11 - 2.5	Active High	Y	Y	Y	Y	Y	Auto-Retry	GH	HWSON6	2 x 2	SOT8044-1
NPS4069	5.5 V, 55 mΩ load switch with current limitation	2.5	5.5	6	55	1.5	1.83	Active High	Y	Y	Y	Y		Auto-Retry	GV	TSOP5	2.9 x 1.5	SOT753
NPS4001	5.5 V, 55 mΩ load switch with current limitation	2.5	5.5	6	55	2	2.37	Active High	Y	Y	Y	Y		Auto-Retry	GV	TSOP5	2.9 x 1.5	SOT753
NPS1000	0.5 V to 1.0 V, 1.5 A peak, 11 mΩ, load switch	0.5	1	1.2	11	0.6	NA	Active High		Y	Y			Latch-off	UP	WLCSP8	1.42 x 0.72	SOT8068-1
NPS1001	0.5 V to 1.8 V, 1.5 A peak, 11 mΩ, load switch	0.5	1.8	2	11	0.6	NA	Active High		Y	Y			Latch-off	UP	WLCSP8	1.42 x 0.72	SOT8068-1
NPS3005	0.5 V to 5.5V, 15mΩ, load switch with Adjustable Soft Start and quick output discharge	0.5	5.5	6	15	6	NA	Active High		Y	Y			Auto-Retry	GP	HWSON-8	2 x 2	SOT8067-1
NPS3005-Q100	0.5 V to 5.5V, 15mΩ, Automotive, load switch with Adjustable Soft Start and quick output discharge	0.5	5.5	6	15	6	NA	Active High		Y	Y		Y	Auto-Retry	GP	HWSON-8	2 x 2	SOT8067-1

eFuses

Type number	Description	Features													Package (suffix)			
		Minimum Input Voltage (V)	Maximum Input Voltage (V)	Absolute Maximum Input Voltage (V)	Typical On-resistance (mohm)	Minimum Current Limit (A)	Maximum Current Limit (A)	Over Voltage Protection	Over voltage protection type	Clamp voltage (V)	Over Current Protection	Over temperature protection	Inrush current control	Thermal Fault Response	Package Suffix	Package Type	Package Size (mm)	Package Code
NPS3102A	12 V, 2 A to 13.5 A, 17 mΩ eFuse	9	18	21	17	2	13.5	Fixed	Clamp	15	Y	Y	Y	Latch-Off	GB	DFN3030-10	3 x 3	SOT8037-1
NPS3102B	12 V, 2 A to 13.5 A, 17 mΩ eFuse	9	18	21	17	2	13.5	Fixed	Clamp	15	Y	Y	Y	Auto-Retry	GB	DFN3030-10	3 x 3	SOT8037-1
NPS2122A	12 V, 2 A to 5.5A, 40 mΩ eFuse	9	18	21	40	2	5.5	Fixed	Clamp	15	Y	Y	Y	Latch-Off	GB	DFN3030-10	3 x 3	SOT8037-1
NPS2122B	12 V, 2 A to 5.5A, 40 mΩ eFuse	9	18	21	40	2	5.5	Fixed	Clamp	15	Y	Y	Y	Auto-Retry	GB	DFN3030-10	3 x 3	SOT8037-1

Ideal Diodes

Type number	Description	Features													Package (suffix)			
		Minimum Input Voltage (V)	Maximum Input Voltage (V)	Typical Forward Voltage Drop (mV)	Shutdown current (μA)	Quiescent current (μA)	Internal FET	Rated Forward Current (A)	Reverse Current Blocking	Input Polarity Protection	Forward Voltage Blocking	Inrush Current Control	Short circuit Protection	Over temperature Protection	AEC-Q100 Qualified	Package (suffix)	Package Type	Package Code
NID5100	1.2 V to 5.5 V, 1.5 A input polarity protected, low quiescent current ideal diode	1.2	5.5	31	0.17	0.24	Y	1.5	Y	Y						GW	TSSOP6	SOT363-2
NID5100-Q100	1.2 V to 5.5 V, Automotive, 1.5 A input polarity protected, low quiescent current ideal diode	1.2	5.5	31	0.17	0.24	Y	1.5	Y	Y					Y	GW	TSSOP6	SOT363-2
NID1100	1.5 V to 5.5 V, 1 A forward voltage blocking ideal diode	1.2	5.5	36	0.1	0.56	Y	1	Y		Y	Y	Y	Y		GV	TSOP5	SOT753
NID1101	1.5 V to 5.5 V, 1 A forward voltage blocking ideal diode	1.5	5.5	36	0.1	0.56	Y	1	Y		Y	Y	Y	Y		UP	WLCSP4	SOT8113
NID6000-Q100	Automotive reverse battery protection ideal diode controller	3.2	65	20	1	60	N	NA	Y	Y					Y	GV	TSOP6	SOT457

Low Iq buck converter

Type number	Description	Features						Package (suffix)
		V _{in} range (V)	V _{out} range (V)	I _{out} (max) (A)	I _q	F _{sw} (MHz)	Package	Package Size (L x W x H)mm
NEX30606UA	1.8 V to 5.0V, 600 mA, 220 nA quiescent current, step-down converter	1.8-5	0.7 - 3.3	0.6	220nA	1.5	CSP-6	1.09 mm x 0.74 mm x 0.35mm

Wide Vin buck converter

Type number	Description	Features										Package
		V _{in} range (V)	V _{out} range (V)	I _{out} (max) (A)	Operation Mode	Spread Spectrum (SS)	I _q	I _s	F _{sw} (MHz)	Enable Pin	Package	Size(L x W x H)mm
NEX40400ADAZ	4.5 V to 40 V, 600 mA, synchronous step-down converter	4.5-40	2.5-24	0.6	PFM	Off	60uA	0.3uA	2.1	Y	TSOP6	2.9 mm x 1.6mm x 0.85mm
NEX40400BDAZ	4.5 V to 40 V, 600 mA, synchronous step-down converter	4.5-40	2.5-24	0.6	FPWM	Off	60uA	0.3uA	2.1	Y	TSOP6	2.9 mm x 1.6mm x 0.85mm
NEX40400CDAZ	4.5 V to 40 V, 600 mA, synchronous step-down converter	4.5-40	2.5-24	0.6	FPWM	On	60uA	0.3uA	2.1	Y	TSOP6	2.9 mm x 1.6mm x 0.85mm
NEX40400DDAZ	4.5 V to 40 V, 600 mA, synchronous step-down converter	4.5-40	2.5-24	0.6	PFM	Off	60uA	0.3uA	1.05	Y	TSOP6	2.9 mm x 1.6mm x 0.85mm
NEX40400EDAZ	4.5 V to 40 V, 600 mA, synchronous step-down converter	4.5-40	2.5-24	0.6	FPWM	Off	60uA	0.3uA	1.05	Y	TSOP6	2.9 mm x 1.6mm x 0.85mm
NEX40400FDAZ	4.5 V to 40 V, 600 mA, synchronous step-down converter	4.5-40	2.5-24	0.6	FPWM	On	60uA	0.3uA	1.05	Y	TSOP6	2.9 mm x 1.6mm x 0.85mm

Half bridge gate driver

Types in **bold** represent new products

Type number	Description	Features									Package (suffix)
		Power supply range / VDD	Bootstrap supply voltage (max.)	Driving capability Source/ Sink	Input signal Logic level	Switching frequency (max.)	Rise/ Fall time (1000pF load)	Propagation Delay	Turn ON/ OFF delay matching	Ambient temperature range TA	
NGD4300D	120V, 4A peak, high performance half bridge gate driver	8-17V	120V	5A/4A	TTL/CMOS	1MHz	4ns/3.5ns	13ns	1ns/1ns	-40 °C to 125 °C	SO-8
NGD4300GC	120V, 4A peak, high performance half bridge gate driver	8-17V	120V	5A/4A	TTL/CMOS	1MHz	4ns/3.5ns	13ns	1ns/1ns	-40 °C to 125 °C	HWSO-8
NGD4300DD	120V, 4A peak, high performance half bridge gate driver	8-17V	120V	5A/4A	TTL/CMOS	1MHz	4ns/3.5ns	13ns	1ns/1ns	-40 °C to 125 °C	HSO-8
NGD4300DD-Q100	120V, 4A peak, automotive high performance half bridge gate driver	8-17V	120V	5A/4A	TTL/CMOS	1MHz	4ns/3.5ns	13ns	1ns/1ns	-40 °C to 125 °C	HSO-8

PWM controller

Type number	Mode	Max F_{sw} (kHz)	GATE DRIVE High Level (V)	V_{CC} range (V)	Jitter	Standby Power (mW)	Line compensation	Package	Protection
NEX80601DA	QR/DCM/PFM/BM	130	11.5	10-83	Yes	<75	Yes, by OPP	TSOT23-6	Line BNI/BNO, V_{out} OV/UV, VCC OV/UV, SCP, SR short, CS open/short, Int/Ext OTP
NEX80611DA	QR/DCM/PFM/BM	130	5.8	10-83	Yes	<75	Yes, by OPP	TSOT23-6	Line BNI/BNO, V_{out} OV/UV, VCC OV/UV, SCP, SR short, CS open/short, Int/Ext OTP
NEX80602DA	QR/DCM/PFM/BM	170	11.5	10-83	Yes	<75	Yes, by OPP	TSOT23-6	Line BNI/BNO, V_{out} OV/UV, VCC OV/UV, SCP, SR short, CS open/short, Int/Ext OTP
NEX80605DA	QR/DCM/PFM/BM	130	11.5	10-83	Yes	<75	Yes, by OCP	TSOT23-6	Line BNI/BNO, V_{out} OV/UV, VCC OV/UV, SCP, SR short, CS open/short, Int/Ext OTP
NEX80801DA	CCM/QR/PFM/BM	65	11.5	10-83	Yes	<75	Yes, by OPP	TSOT23-6	Line BNI/BNO, V_{out} OV/UV, VCC OV/UV, SCP, SR short, CS open/short, Int/Ext OTP
NEX80805DA	CCM/QR/PFM/BM	65	11.5	10-83	Yes	<75	Yes, by OCP	TSOT23-6	Line BNI/BNO, V_{out} OV/UV, VCC OV/UV, SCP, SR short, CS open/short, Int/Ext OTP
NEX80806DA	CCM/QR/PFM/BM	65	11.5	10-83	Yes	<75	Yes, by OCP	TSOT23-6	Line BNI/BNO, V_{out} OV/UV, VCC OV/UV, SCP, SR short, CS open/short, Int/Ext OTP
NEX80808DA	CCM/QR/PFM/BM	65	11.5	10-83	Yes	<75	Yes, by OPP	TSOT23-6	Line BNI/BNO, V_{out} OV/UV, VCC OV/UV, SCP, SR short, CS open/short, Int/Ext OTP
NEX80809DA	CCM/QR/PFM/BM	85	11.5	10-83	Yes	<75	Yes, by OPP	TSOT23-6	Line BNI/BNO, V_{out} OV/UV, VCC OV/UV, SCP, SR short, CS open/short, Int/Ext OTP

SR controller

Type number	Description	Features							
		Operating Mode	BV_{dss} (V)	Maximum Frequency (kHz)	V_{CC} Reg (V)	DRV Sink Current (A)	Minimum Turn-on Time (us)	Turn-off Propagation (ns)	Package
NEX81801DA	Adaptive Synchronous Rectifier (SR) Controller	CCM/QR/DCM	120	400	6~9	4	1.0~2.0	10	TSOT23-6
NEX81802DA	Adaptive Synchronous Rectifier (SR) Controller	CCM/QR/DCM	120	800	6~9	4	0.5~1.5	10	TSOT23-6

Automotive low Iq LDO

Type number	Description	Features												
		Input voltage range	Output voltage	Output current	Iq (typ.)	Shut-down current (typ.)	Dropout voltage (typ.)	PSRR (dB) Vr=0.5 Vpp, fr=100Hz	Enable (Y/N)	PG (Y/N)	Output cap. (min)	Protection	Ambient temperature range TA	Package
NEX90530APA-Q100	300mA, 40V low Iq (5uA) low-dropout regulator with PG	3-40V (45V transient)	3.3V	300mA	5.3uA	300nA	560mV@300mA	60	Y	Y	1uF	OTP/OCP	-40C to 125C	HTSSOP
NEX90530BPA-Q100	300mA, 40V low Iq (5uA) low-dropout regulator with PG	3-40V (45V transient)	5V	300mA	5.3uA	300nA	450mV@300mA	60	Y	Y	1uF	OTP/OCP	-40C to 125C	HTSSOP
NEX90230APA-Q100	300mA, 40V low Iq (5uA) low-dropout regulator	3-40V (45V transient)	3.3V	300mA	5.3uA	300nA	560mV@300mA	60	Y	N	1uF	OTP/OCP	-40C to 125C	HTSSOP
NEX90230BPA-Q100	300mA, 40V low Iq (5uA) low-dropout regulator	3-40V (45V transient)	5V	300mA	5.3uA	300nA	450mV@300mA	60	Y	N	1uF	OTP/OCP	-40C to 125C	HTSSOP
NEX90515APA-Q100	150mA, 40V low Iq (5uA) low-dropout regulator with PG	3-40V (45V transient)	3.3V	150mA	5.3uA	300nA	290mV@150mA	60	Y	Y	1uF	OTP/OCP	-40C to 125C	HTSSOP
NEX90515BPA-Q100	150mA, 40V low Iq (5uA) low-dropout regulator with PG	3-40V (45V transient)	5V	150mA	5.3uA	300nA	230mV@150mA	60	Y	Y	1uF	OTP/OCP	-40C to 125C	HTSSOP

Automotive 40V tracking LDO

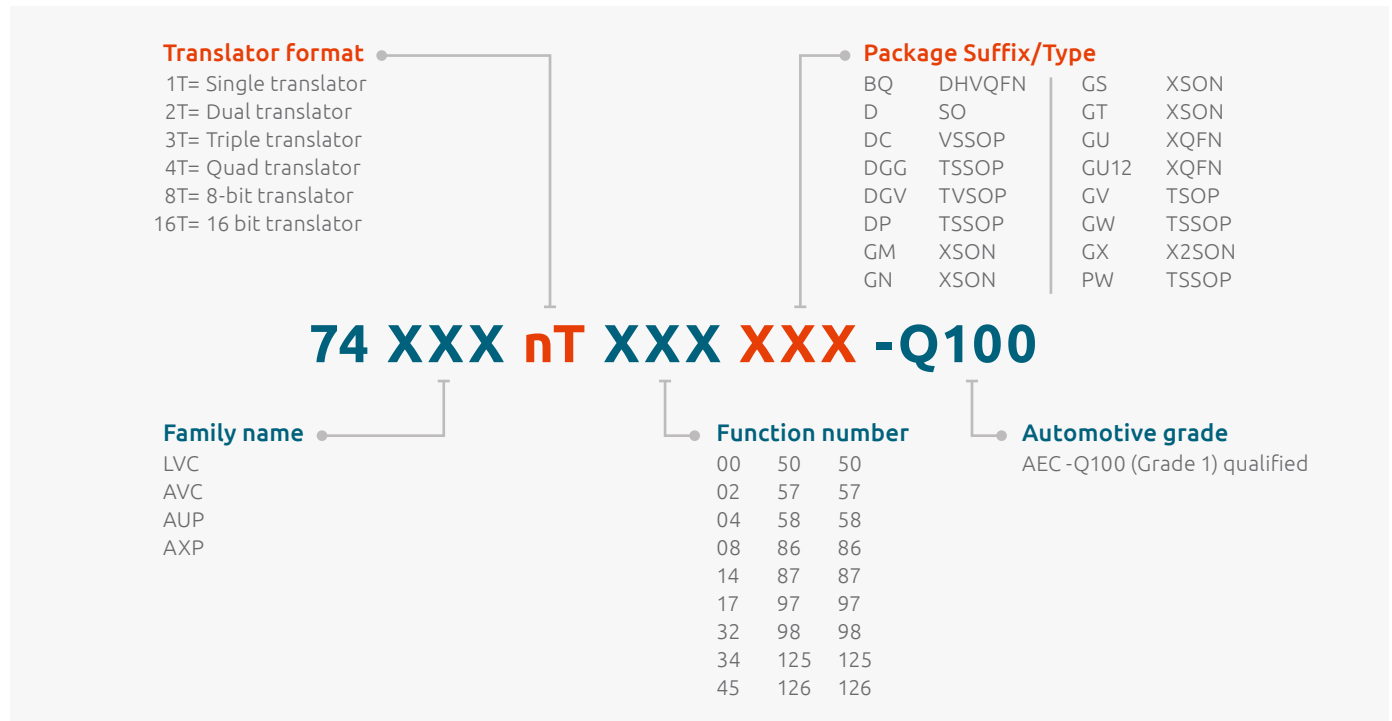
Types in **bold** represent new products

Type number	Description	Features													
		Input voltage range	Output voltage	Output current	Iq (typ.)	Shut-down current (typ.)	Dropout voltage (typ.)	PSRR (dB) Vr=0.5 Vpp, fr=100Hz	Enable (Y/N)	PG (Y/N)	Output cap. (min)	Protection	Active discharge	Ambient temperature range TA	Package
NEX-91207DF-Q100	70mA, 40V tracking LDO	3-40V(-42 V to +45 V transient)	2-40V	70mA	40uA	0.75uA	215mV@70mA	90	Y	N	1uF	OTP/OC/Reverse polarity/Reverse current	Y	-40C to 125C	SOT23-5
NEX-91207DE-Q100	70mA, 40V tracking LDO	4-40V(-42 V to +45 V transient)	2-40V	70mA	40uA	0.75uA	215mV@70mA	90	Y	N	1uF	OTP/OC/Reverse polarity/Reverse current	Y	-40C to 125C	SOT23-5S

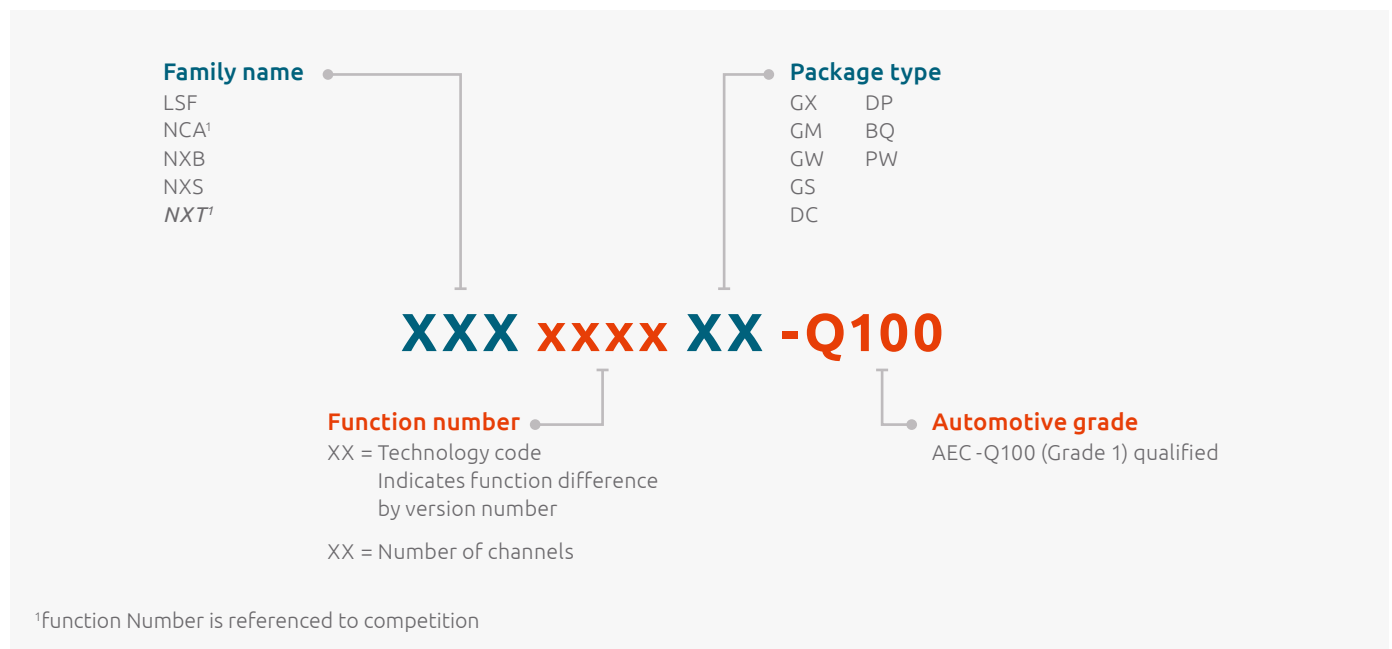
USB PD Controller

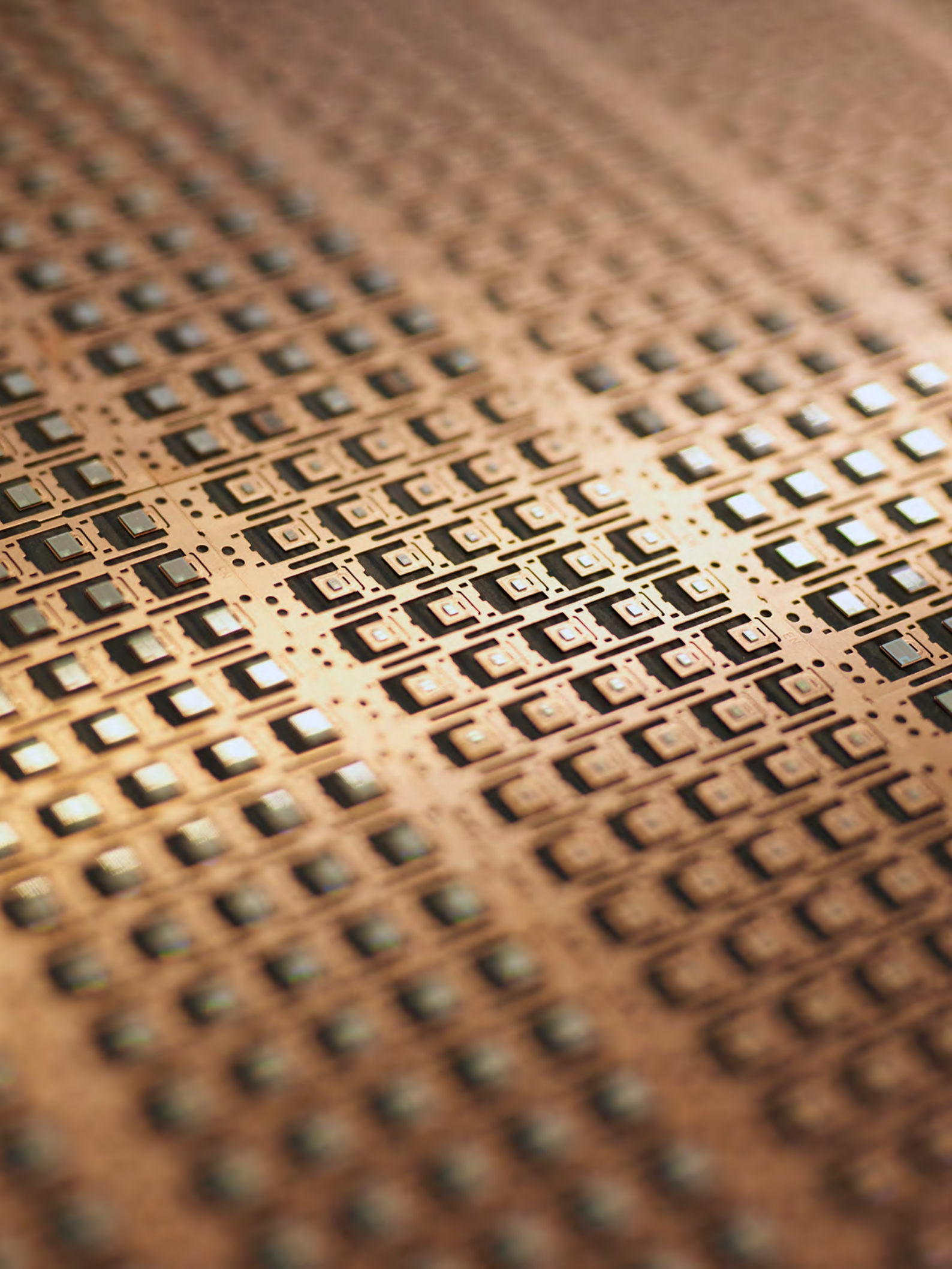
Type number	Description	Features															
		Vin range (V)	Power Level	FPDO range	PPS	EPR	AVS	Function	Power Role	External power path control	VCONN Power	BC1.2	QC2.0/3.0	UFCS	Memory	Package	Package Size(L x W x H)mm
NEX5204100BYY	Single-Port USB PD Controller for Source Application	3.15V to 23V	100W	5V-20V	Y	N	N	Type-C	Pro-vider	NFET	Y	Y	Y	Y	MTP	QFN-24	4mm x 4mm x 0.85mm
NEX5204100BVY	Single-Port USB PD Controller for Source Application	3.15V to 23V	100W	5V-20V	Y	N	N	Type-C	Pro-vider	NFET	Y	Y	Y	Y	MTP	QFN-16	4mm x 4mm x 0.85mm
NEX5208000BYY	Single-Port USB PD Controller for Source Application	3.15V to 29V	140W	5V-28V	Y	Y	Y	Type-C	Pro-vider	NFET	Y	Y	Y	Y	MTP	QFN-24	4mm x 4mm x 0.85mm
NEX5208000BVY	Single-Port USB PD Controller for Source Application	3.15V to 29V	140W	5V-28V	Y	Y	Y	Type-C	Pro-vider	NFET	Y	Y	Y	Y	MTP	QFN-16	4mm x 4mm x 0.85mm

Translator IC's nomenclature



Translator IC's nomenclature





Package details and packing methods	206
Package details and packing methods SMD.....	206
WLCSP package details	210
Packing details glass diodes, single ended and through hole packages.....	211
Package cross reference	212
Package cross reference list.....	212
Package cross reference matrix.....	218
Competitive cross reference - Logic.....	220
Competitive cross reference - Analog & logic ICs.....	220
Packing methods.....	222
Product orientation (tape and reel pack)	222
Index	224

Package details and packing methods SMD

Pins/Terminals	Package	Package body size (l x w x h) (mm)	Package dimensions inc. leads (l x w) (mm)	Package area (mm ²)	Lead pitch (mm)	Package	800	1000	1500	2000	2500	3000	4000	4500	5000	8000	9000	10000	15000	20000	30000	50000
2	DFN0603-2 (SOD972E)	0.33 x 0.63 x 0.25	0.33 x 0.63	0.21	0.4													317				
	DSN0603D-2 (SOD962D)	0.6 x 0.3 x 0.3	0.6 x 0.3	0.18	0.4												315					
	DSN0603-2 (SOD962-2)	0.6 x 0.3 x 0.3	0.6 x 0.3	0.18	0.4												315					
	DSN0603-2 (SOD962)	0.6 x 0.3 x 0.3	0.6 x 0.3	0.18	0.4												315					
	DFN1006-2 (SOD882P-1)	1.02 x 0.62 x 0.45	1.02 x 0.62	0.632	0.6													515				
	SC-79 (SOD523)	1.2 x 0.8 x 0.6	1.6 x 0.8	1.28	1.4						115					315		135		335		
	CFP2-HP (SOD323HP)	1.3 x 2.2 x 0.68	2.65 x 1.3	3.45	1.6								115									
	DSN1608-2 (SOD964)	1.6 x 0.8 x 0.29	1.6 x 0.8	1.28	0.6													315				
	DFN1608D-2 (SOD1608)	1.6 x 0.8 x 0.37	1.6 x 0.8	1.28	0.9											315						
	DFN1610-2 (SOD1610-1)	1.6 x 1 x 0.55	1.6 x 1	1.6	1.1							515										
	SC-90 (SOD323F)	1.7 x 1.25 x 0.7	2.5 x 1.25	3.125	2.2							115						135				301
	SOD323	1.7 x 1.25 x 0.95	2.5 x 1.25	0.3125	1.3							115						135			145	
	DSN1006-2 (SOD993)	1 x 0.6 x 0.27	1 x 0.6	0.6	0.6													315				
	DSN1006-2 (SOD993B)	1 x 0.6 x 0.27	1 x 0.6	0.6	0.6													315				
	DSN1006U-2 (SOD995)	1 x 0.6 x 0.27	1 x 0.6	0.6	0.3													315				
	DFN1006D-2 (SOD882D)	1 x 0.6 x 0.4	1 x 0.6	0.6	0.6													315				
	DFN1006-2 (SOD882-S1)	1 x 0.6 x 0.4	1 x 0.6	0.6	0.6													515				
	DFN1006BD-2 (SOD882BD)	1 x 0.6 x 0.47	1 x 0.6	0.6	0.6													315				
	DFN1006 (SOD882-2)	1 x 0.6 x 0.47	1 x 0.6	0.6	0.6													315				
	DFN1006-2 (SOD882)	1 x 0.6 x 0.48	1.0 x 0.6	0.6	0.6													303 315				
	SOD123	2.675 x 1.6 x 1.15	3.6 x 1.6	5.76	3.3							115						118				
	SOD123F	2.6 x 1.6 x 1.1	3.5 x 1.6	5.6	2.8							115										
	CFP3 (SOD123W)	2.6 x 1.7 x 1	3.5 x 1.7	5.95	2.8							115										
	CFP3-HP (SOD123HP)	2.8 x 1.8 x 0.9	2.8 x 1.8	5.04	3.2																	
	LLDS; MiniMelf (SOD80C)	3.5 x 1.5	3.5 x 1.53	5.36							115							135				
	CFP5 (SOD128)	3.8 x 2.5 x 1	4.7 x 2.6	12.22	4							115										
	DPAK R2P (SOT8017)	6.16 x 6.54 x 2.29	9.98 x 6.54	65.27	4.6						118											
	D2PAK R2P (SOT8018)	8.8 x 10.35 x 4.46	15.18 x 10.35	157.11	5.1		118															
3	DFN0606-3 (SOT8001)	0.62 x 0.62 x 0.37	0.62 x 0.62	0.384	0.3													125				
	DFN0603-3 (SOT8013)	0.63 x 0.33 x 0.25	0.63 x 0.33	0.208	0.2														317			
	DSN1010-3 (SOT8007)	0.96 x 0.96 x 0.24	0.96 x 0.96	0.922	0.5									315								
	D2PAK (SOT404)	11 x 10 x 4.3	15.3 x 10	153	2.5		118															
	D2PAK (SOT404A)	11 x 10 x 4.3	15.3 x 10	153	2.5		118															
	DFN1010D-3 (SOT1215)	1.1 x 1 x 0.37	1.1 x 1	1.1	0.8										147							

Package details and packing methods SMD

Pls/Terminals	Package	Package body size (l x w x h) (mm)	Package dimensions inc. leads (l _w x h _w) (mm)	Package area (mm ²)	Lead pitch (mm)	Package	800	1000	1500	2000	2500	3000	4000	4500	5000	8000	9000	10000	15000	20000	30000	50000
3	DFN1110D-3 (SOT8015)	1.1 x 1 x 0.48	1.1 x 1	1.1	0.6										147							
	DFN1412D-3 (SOT8009)	1.4 x 1.2 x 0.48	1.4 x 1.2	1.68	0.8										147							
	SOT663	1.6 x 1.2 x 0.55	1.6 x 1.6	2.56	1								115									
	DSN1006-3 (SOT8026)	1 x 0.6 x 0.2	1 x 0.6	0.6	0.3													326				
	DFN1006B-3 (SOT883B)	1 x 0.6 x 0.37	1 x 0.6	0.6	0.3													315				
	DFN1006-3 (SOT883-3)	1 x 0.6 x 0.46	1 x 0.6	0.6	0.3													305				
	DFN1006-3 (SOT883-2)	1 x 0.6 x 0.47	1 x 0.6	0.6	0.3													315				
	DFN1006-3 (SOT883)	1 x 0.6 x 0.48	1 x 0.6	0.6	0.3													305 315				
	SOT23	2.9 x 1.3 x 1	2.9 x 2.3	6.67	1.9							215						235			185	300
	SC-70 (SOT323)	2 x 1.25 x 0.95	2 x 2.1	4.2	1.3							115						135				300
	HUSON3 (SOT1061-3)	2 x 2 x 0.55	2 x 2	4	1.3							328										
	DFN2020-3 (SOT1061)	2 x 2 x 0.65	2 x 2	4	1.3							115 147						135				
	DFN2020D-3 (SOT1061D)	2 x 2 x 0.65	2 x 2	4	1.3							115										
	FCLGA3 (SOT8073-1)	3.2 x 2.2 x 0.774	3.2 x 2.2	7.04	1.2						328											
	SOT89	4.5 x 2.5 x 1.5	4.5 x 4	18	1.5			115 146 147					135									
	CFP15 (SOT1289)	5.8 x 4.3 x 0.78	6.5 x 4.3	27.95	2.1				146						139							
	CFP15B (SOT1289B)	5.8 x 4.3 x 0.95	6.8 x 4.3	29.24	2.1										139							
	DPAK (SOT428C)	6.1 x 6.6 x 2.3	10 x 6.6	66	2.3						118											
4	X2SON4 (SOT1269-2)	0.6 x 0.6 x 0.32	0.6 x 0.6	0.36	0.4													147				
	SOT143B	2.9 x 1.3 x 1	2.9 x 2.3	6.67	1.9							215						235				
	LFPK56E; Power-SO8 (SOT1023)	4.58 x 5.13 x 1.03	5 x 6	30	1.3				115													
	LFPK56-UL2595 (SOT1023A)	4.6 x 5.1 x 1	5 x 6	30	1.3				115													
	LFPK56; Power-SO8 (SOT669)	4.9 x 4.45 x 1	5 x 6	30	1.3				13 115													
	SC-73 (SOT223)	6.5 x 3.5 x 1.65	6.5 x 7	45.5	4.6			115					135									
	LFPK88 (SOT1235)	8 x 8 x 1.6	8 x 8	64	2					118												
5	XSON5 (SOT8065-1)	1.1 x 0.85 x 0.5	1.1 x 0.85	0.935	0.6													315				
	X2SON5 (SOT1226-3)	0.8 x 0.8 x 0.32	0.8 x 0.8	0.64	0.5													125				
	X2SON5 (SOT1226)	0.8 x 0.8 x 0.35	0.8 x 0.8	0.64	0.5													125				
	SOT665	1.6 x 1.2 x 0.55	1.6 x 1.6	2.56	1											115						
	TSSOP5 (SOT353)	2.1 x 1.25 x 0.95	2 x 2.1	4.2	1.3										115			135				
	TSOP5 (SOT753)	2.9 x 1.5 x 1	2.9 x 2.75	7.975	0.9										125							
	TSOT5 (SOT8098-1)	2.9 x 1.6 x 1.1	2.9 x 2.8	8.12	0.9																	
	TSSOP5 (SOT353-1)	2 x 1.25 x 0.95	2 x 2.1	4.2	0.6										125							
	DFN5060-5 (SOT8075-1)	5 x 6 x 0.9	5 x 6	30	1.3									332								

Package details and packing methods SMD

Pins/Terminals	Package	Package body size (l x w x h) (mm)	Package dimensions inc. leads (l x w) (mm)	Package area (mm ²)	Lead pitch (mm)	Package	800	1000	1500	2000	2500	3000	4000	4500	5000	8000	9000	10000	15000	20000	30000	50000
6	XSON6 (SOT1115)	0.9 x 1 x 0.35	0.9 x 1	0.9	0.6										125 132							
	X2SON6 (SOT1255-2)	1.0 x 0.8 x 0.32	1 x 0.8	0.8	0.4													147				
	X2SON6 (SOT1255)	1.0 x 0.8 x 0.32	1 x 0.8	0.8	0.4													147				
	DFN1010B-6 (SOT1216)	1.1 x 1.0 x 0.37	1.1 x 1	1.1	0.3										147							
	DFN1308-6 (SOT8006)	1.3 x 0.8 x 0.38	1.3 x 0.8	1.04	0.4													315				
	DFN1308-6 (SOT8006B)	1.3 x 0.8 x 0.38	1.3 x 0.8	1.04	0.4													315				
	XSON6 (SOT886)	1.45 x 1 x 0.5	1 x 1.45	1.45	0.5										115 125 132							
	DFN1412-6 (SOT1268)	1.4 x 1.2 x 0.47	1.4 x 1.2	1.68	0.5										147							
	DFN1412-6 (SOT1268-1)	1.4 x 1.2 x 0.47	1.4 x 1.2	1.68	0.5										147							
	SOT666	1.6 x 1.2 x 0.55	1.6 x 1.6	2.56	0.5								115 125			315						
	XSON6 (SOT1202)	1 x 1 x 0.35	1 x 1	1	0.3										125 132							
	TSSOP6 (SOT363)	2.1 x 1.25 x 0.95	2 x 2.1	4.2	0.6							115 125						135 165				
	TSOP6 (SOT457)	2.9 x 1.5 x 1	2.9 x 2.75	7.975	0.9							115 125						135 165				
	TSSOP6 (SOT8061-1)	2.9 x 1.6 x 1.1	2.9 x 2.8	8.12	0.9							342										
	TSSOP6 (SOT363-2)	2 x 1.25 x 0.95	2 x 2.1	4.2	0.6							125										
	DFN2020MD-6 (SOT1220)	2 x 2 x 0.65	2 x 2	4	0.6							115 125 184										
	DFN2020D-6 (SOT1118D)	2 x 2 x 0.65	2 x 2	4	0.6							115										
	DFN2020M-6 (SOT1220-2)	2 x 2 x 0.65	2 x 2	4	0.6							115 184										
	DFN2020-6 (SOT1118)	2 x 2 x 0.65	2 x 2	4	0.6							115 184										
	HWSO6 (SOT8044-1)	2 x 2 x 0.75	2 x 2	4	0.6							147										
7	XSON7 (SOT1358-1)	1.1 x 2.1 x 0.5	1.1 x 2.1	2.31	0.5								471									
	VQFN7 (SOT8091-1)	6 x 4 x 0.95	6 x 4	24	0.5						332											
	TO-263-7 (SOT8070-1)	9.3 x 9.88 x 4.5	10.08 x 15.88	160.07	1.3		118															
8	XSON8 (SOT1116)	1.2 x 1 x 0.35	1.2 x 1	1.2	0.3										115							
	X2SON8 (SOT1233-2)	1.35 x 0.8 x 0.32	1.35 x 0.8	1.08	0.5													115				
	XSON8 (SOT1203)	1.35 x 1 x 0.35	1.35 x 1	1.35	0.3										115							
	DFN1714-8 (SOT1166-1)	1.7 x 1.35 x 0.55	1.7 x 1.35	2.295	0.4								132									
	XSON8 (SOT833-1)	1 x 1.95 x 0.5	1 x 1.95	1.95	0.5										115							
	LPAK33 (SOT1210)	2.7 x 3.4 x 0.9	3.3 x 3.3	10.89	0.6				115													
	VSSOP8 (SOT765-1)	2 x 2.3 x 1	2 x 3.1	6.2	0.5							125										
	TSSOP8 (SOT505-2)	3.0 x 3.0 x 1.1	3 x 4	12	0.6							125										
	MLPAK33 (SOT8002-3)	3.3 x 3.3 x 0.8	3.3 x 3.3	10.89	0.6							118										

Package details and packing methods SMD

Pins/Terminals	Package	Package body size (l x w x h) (mm)	Package dimensions inc. leads (l x w) (mm)	Package area (mm ²)	Lead pitch (mm)	Package	800	1000	1500	2000	2500	3000	4000	4500	5000	8000	9000	10000	15000	20000	30000	50000
8	MLPAK33 (SOT8002-1)	3.3 x 3.3 x 0.8	3.3 x 3.3	10.89	0.6							118										
	MLPAK33 (SOT8002-2)	3.3 x 3.3 x 0.8	3.3 x 3.3	10.89	0.6							118										
	TSSOP8 (SOT530-1)	3 x 4.4 x 1.1	3 x 6.4	19.2	0.6							118										
	LFPAK56D; Dual LFPAK (SOT1205)	4.7 x 5.3 x 1.05	5 x 6	30	1.3				115													
	DFN8080-8 (SOT8074-1)	8 x 8 x 0.9	8 x 8	64	2							332										
10	DFN2510A-10 (SOT1176-2)	1.0 x 2.5 x 0.5	1 x 2.5	2.5	0.5									115 471								
	XQFN10 (SOT1160-1)	1.4 x 1.8 x 0.5	1.4 x 1.8	2.52	0.4								115									
	DFN2510A-10 (SOT1176-1)	2.5 x 1 x 0.5	2.5 x 1	2.5	0.5									115 471								
	DFN2510-10 (SOT1165-1)	2.5 x 1 x 0.5	2.5 x 1	2.5	0.5									115								
10	DFN2510D-10 (SOT1165D)	2.5 x 1 x 0.75	2.5 x 1	2.5	0.5								115						118			
	DFN2510D-10 (SOT1176D)	2.5 x 1 x 0.75	2.5 x 1	2.5	0.5								115						118			
	TSSOP10 (SOT552-1)	3 x 3 x 1.1	3 x 4.9	14.7	0.5							118										
12	XQFN12 (SOT1174-1)	2 x 1.7 x 0.5	2 x 1.7	3.4	0.4								115									
13	CCPAK1212 (SOT8000)	12 x 12 x 2.5	12 x 12	144	2				139													
	CCPAK1212i (SOT8005)	12 x 9.4 x 2.5	12 x 12	144	2				139													
14	DHXQFN14 (SOT8014-1)	2 x 2 x 0.48	2 x 2	4	0.4								147									
	DHVQFN14 (SOT762-1)	3 x 2.5 x 1	2.5 x 3	7.5	0.5								115									
	TSSOP14 (SOT402-1)	5 x 4.4 x 1.1	5 x 6.4	32	0.6							118										
	SO14 (SOT108-1)	8.65 x 3.9 x 1.75	8.65 x 6	51.9	1.3							13 118 139 623 653										
16	XQFN16 (SOT1161-1)	2.6 x 1.8 x 0.5	1.8 x 2.6	4.68	0.4								115									
	DHXQFN16 (SOT8016-1)	2 x 2.4 x 0.48	2 x 2.4	4.8	0.4								115									
	DFN3314-16 (SOT1168-1)	3.3 x 1.35 x 0.55	3.3 x 1.35	4.455	0.4									132								
	DHVQFN16 (SOT763-1)	3.5 x 2.5 x 1	3.5 x 2.5	8.75	0.5								115									
	HWQFN16 (SOT8076-1)	3 x 3 x 0.75	3 x 3	9	0.5										118							
	SSOP16 (SOT519-1)	4.9 x 3.9 x 1.73	4.9 x 6	29.4	0.6							118										
	TSSOP16 (SOT403-1)	5 x 4.4 x 1.1	5 x 6.4	32	0.6							118										
20	SO20 (SOT163-1)	12.8 x 7.5 x 2.65	12.8 x 10.33	132.22	1.3						118 623 653											
	DHXQFN20 (SOT8020-1)	2 x 3.2 x 0.48	3.2 x 2	6.4	0.4								115									
	DHVQFN20 (SOT764-1)	4.5 x 2.5 x 1	4.5 x 2.5	11.25	0.5								115									

Package details and packing methods SMD

Pins/Terminals	Package	Package body size (l x w x h) (mm)	Package dimensions inc. leads (l x w) (mm)	Package area (mm ²)	Lead pitch (mm)	Package	800	1000	1500	2000	2500	3000	4000	4500	5000	8000	9000	10000	15000	20000	30000	50000
20	TSSOP20 (SOT360-1)	6.5 x 4.4 x 1.1	6.5 x 6.4	41.6	0.6						118											
24	DHXQFN24 (SOT8024-1)	2 x 4 x 0.48	2 x 4	8	0.4							115										
	HWQFN24 (SOT8041-1)	4 x 4 x 0.75	4 x 4	16	0.5							128										
	DHVQFN24 (SOT815-1)	5.5 x 3.5 x 1	5.5 x 3.5	19.25	0.5							118										
	TSSOP24 (SOT355-1)	7.8 x 4.4 x 1.1	7.8 x 6.4	49.92	0.6						118											
48	TSSOP48 (SOT362-1)	12.8 x 6.1 x 1.2	12.5 x 8.1	101.25	0.5					118												
	TVSOP48 (SOT480-1)	9.7 x 4.4 x 1.1	9.7 x 6.4	62.08	0.4					118												
56	TSSOP56 (SOT364-1)	14 x 6.1 x 1.2	14 x 8.1	113.4	0.5					118												
										518												

WLCSP package details

Basic type	Package size (l x w x h) (mm)	# of balls	Pitch (mm)	Package	Package name	ID	Category
IP4369CX4	0.76 x 0.76 x 0.47	4	0.4		WLCSP4	OL-IP4369CX4	ESD
PMCM4401UPE	0.78 x 0.78 x 0.345	4	0.4		WLCSP4	OL-PMCM4401UPE	MOSFETs
PMCM4401VNE	0.78 x 0.78 x 0.345	4	0.4		WLCSP4	OL-PMCM4401VNE	MOSFETs
PMCM4401VPE	0.78 x 0.78 x 0.345	4	0.4		WLCSP4	OL-PMCM4401VPE	MOSFETs
PCMF1HDMI2BA-C	0.77 x 1.17 x 0.61	5	0.4		WLCSP5	OL-PCMF1HDMI-2BA-C	ESD
IP3319CX6	0.95 x 1.34 x 0.57	6	0.4		WLCSP6	OL-IP3319CX6	ESD
PMCM6501VNE	1.5 x 1 x 0.35	6	0.5		WLCSP6	OL-PMCM6501VNE	MOSFETs
PMCM6501VPE	1.5 x 1 x 0.35	6	0.5		WLCSP6	OL-PMCM6501VPE	MOSFETs
NXB0102UN	0.75 x 1.55 x 0.60	8	0.4		WLCSP8	SOT8023-1	Logic
NXS0102UN	0.75 x 1.55 x 0.60	8	0.4		WLCSP8	SOT8023-1	Logic
NXT4556UP	1.06 x 1.06 x 0.43	9	0.3		WLCSP9	SOT8027-1	Logic
PCMF2HDMI2BA-C	1.57 x 1.17 x 0.61	10	0.4		WLCSP10	OL-PCMF2HDMI-2BA-C	ESD
NXS0104UM	1.36 x 1.86 x 0.60	12	0.5		WLCSP12	SOT8019-1	Logic
PCMF3HDMI2BA-C	2.37 x 1.17 x 0.61	15	0.4		WLCSP15	OL-PCMF3HDMI-2BA-C	ESD
NXS0506UP	1.455 x 1.455 x 0.43	16	0.3		WLCSP16	SOT8025-1	Logic

Packing details glass diodes, single ended and through hole packages

Pins/ Terminals	Package	Package size (l x w x h) (mm)	Lead pitch (mm)	Package	Packing
2	ALF2 (SOD27)	4.25 x 1.85			SOD27_113 (10000)
					SOD27_133 (10000)
					SOD27_143 (5000)
	DO-41 (SOD66)	4.8 x 2.6			SOD66_113 (5000)
					SOD66_133 (5000)
	DO-34 (SOD68)	3.04 x 1.6			SOD68_113 (10000)
					SOD68_133 (10000)
					SOD68_143 (5000)
	TO-247 (SOT429)	20.45 x 15.6 x 4.95	5.4		SOT429_127 (300)
3	DFN3314-16 (SOT1168-1)	15.3 x 10 x 4.4	5.1		SOT8021_127 (1000)
	TO-220-2 (SOT8021)	15.3 x 10 x 4.4	5.1		SOT8021_127 (1000)
	TO-247-3L (SOT429-2)	20.95 x 15.94 x 5.02	5.4		SOT429-2_127 (450)
4	TO-247-3L (SOT429-3)	20.95 x 15.94 x 5.02	5.4		SOT429-3_127 (300)
	TO-247-4 (SOT8071-1)	23.45 x 15.94 x 5.02	2.5		SOT8071-1_127 (450)

Package cross reference list

Type	Competitor	Nexperia	Pins/ Leads
6 Lead DFN	ON Semi	DFN2020-6 (SOT1118)	6
CL2	Toshiba	DSN0402-2 (SOD992)	2
CLP0603	Vishay	DSN0603-2 (SOD962)	2
CMAK/ CMPAK	Renesas	SOT323	3
CMPAK-5(T)	Renesas	SOT353	5
CMPAK-6	Renesas	SOT363	6
CMPAK/ CMAK	Renesas	SOT323	3
CP4	Toshiba	SOT143B	4
CS6	Toshiba	DFN1010-6 (SOT891)	6
CST3	Toshiba	DFN1006-3 (SOT883)	3
CST3	Toshiba	DFN1006B-3 (SOT883B)	3
CTS2 (FSC)	Toshiba	DFN1006-2 (SOD882)	2
CTS2 (FSC)	Toshiba	DFN1006D-2 (SOD882D)	2
D2PAK	Infineon	D2PAK (SOT404)	3
D2PAK	ON Semi	D2PAK (SOT404)	3
D2PAK	ST	D2PAK (SOT404)	3
D2PAK	Toshiba	D2PAK (SOT404)	3
D2PAK	Vishay	D2PAK (SOT404)	3
D2PAK	Infineon	LFPK88 (SOT1235)	4
D2PAK	ON Semi	LFPK88 (SOT1235)	4
D2PAK	ST	LFPK88 (SOT1235)	4
D2PAK	Vishay	LFPK88 (SOT1235)	4
D2PAK	Infineon	D2PAK (SOT404)	3
D2PAK	ST	D2PAK (SOT404)	3
D2PAK	Vishay	D2PAK (SOT404)	3
D2PAK	ST	D2PAK R2P (SOT8018)	2
D2PAK	Ween	D2PAK R2P (SOT8018)	2
D2PAK (TO263-2)	Infineon	D2PAK R2P (SOT8018)	2
D2PAK 3	ON Semi	D2PAK (SOT404)	3
D2PAK 3	ON Semi	LFPK88 (SOT1235)	4
D2PAK 3	ON Semi	D2PAK (SOT404)	3
D2PAK-3	ON Semi	D2PAK (SOT404)	3
D2PAK-7	Infineon	LFPK88 (SOT1235)	4
D2PAK-7	ON Semi	LFPK88 (SOT1235)	4
D2PAK-7	Vishay	LFPK88 (SOT1235)	4
D2PAK*	Diodes Inc.	D2PAK (SOT404)	3
D2PAK+	Toshiba	LFPK88 (SOT1235)	4
DFN-5	ON Semi	LFPK56 (SOT669)	4
DFN-8	ON Semi	LFPK56D (SOT1205)	8
DFN1006-3	Diodes Inc.	DFN1006-3 (SOT883)	3
DFN1006H4-3	Diodes Inc.	DFN1006-3 (SOT883)	3
DFN1411*	Diodes Inc.	DFN1010D-3 (SOT1215)	3
DFN2	ST	DSN0603-2 (SOD962)	2
DPAK	ST	DPAK RP2 (SOT8017)	2

Type	Competitor	Nexperia	Pins/ Leads
DPAK	Ween	DPAK RP2 (SOT8017)	2
DPAK (TO252-2)	Infineon	DPAK RP2 (SOT8017)	2
DSN2, 0.4 x 0.2	ON Semi	DSN0402-2 (SOD992)	2
DSN2, 0.6 x 0.3	ON Semi	DSN0603-2 (SOD962)	2
DSN2, 1.0 x 0.6	ON Semi	DSN1006-2 (SOD993)	2
DSN2, 1.0 x 0.6	ON Semi	DFN1006D-2 (SOD882D)	2
DSN2, 1.6 x 0.8	ON Semi	DFN1608D-2 (SOD1608)	2
EMD2	Rohm	SOD523	2
EMD3/EMT3	Rohm	DFN1006-3 (SOT883)	3
EMT3/EMD3	Rohm	DFN1006-3 (SOT883)	3
EMT3F*	Rohm	DFN1006-3 (SOT883)	3
ESC/TESC	Toshiba	SOD523	2
ESM	Toshiba	DFN1006-3 (SOT883)	3
FM8	Toshiba	SOT96	8
FS6*	Toshiba	DFN1010B-6 (SOT1216)	6
GMD2	Rohm	DSN0603-2 (SOD962)	2
H2PAK-2	ST	D2PAK (SOT404)	3
HSMT8	Rohm	LFPK33 (SOT1210)	8
HSO8-8	Renesas	LFPK56 (SOT669)	4
HSO8-8 Dual	Renesas	LFPK56D (SOT1205)	8
HSOP8 (Dual)	Rohm	LFPK56D (SOT1205)	8
HSOP8 (Single)	Rohm	LFPK56 (SOT669)	4
HSOP8 (Single)	Rohm	LFPK56E (SOT1023)	4
HUML2020L8 (Dual)	Rohm	DFN2020-6 (SOT1118)	6
HUML2020L8 (Single)	Rohm	DFN2020MD-6 (SOT1220)	6
I2PAK	ON Semi	I2PAK (SOT226)	3
I2PAK	ST	I2PAK (SOT226)	3
KMD2	Rohm	DFN1608D-2 (SOD1608)	2
LDPK(S)-(1)	Renesas	D2PAK (SOT404)	3
LFPK	Renesas	LFPK56 (SOT669)	5
LFPK 5x6	ST	LFPK56 (SOT669)	4
LFPK4	ON Semi	LFPK56 (SOT669)	4
LFPK56, HSON-8	Renesas	LFPK56E (SOT1023)	4
LFPK8	ON Semi	LFPK56E (SOT1023)	4
LG A 1.0 x 0.6mm	Texas Instruments	DFN1006B-3 (SOT883B)	3
LLD	Renesas	SOD80C	2
LLDS	Rohm	SOD80C	2
LLP1006-2L	Vishay	DFN1006-2 (SOD882)	2
LLP1006-2L	Vishay	DFN1006D-2 (SOD882D)	2
LLP1006-2M	Vishay	DFN1006-2 (SOD882)	2
LLP1006-2M	Vishay	DFN1006D-2 (SOD882D)	2
LLP75-7L	Vishay	DFN1616-6 (SOT1189)	6
LPDS/LPTS	Rohm	D2PAK (SOT404)	3
LPTS	Rohm	D2PAK (SOT404)	3

Types with * show footprint compability only

Package cross reference list

Type	Competitor	Nexperia	Pins/ Leads
LPTS/LPDS	Rohm	D2PAK (SOT404)	3
M-Flat	Toshiba	SOD128	2
Micro 3	Int. Rectifier	SOT23	3
Micro 6	Int. Rectifier	SOT457	6
MICRO FOOT 0.8 x 0.8	Vishay	WLCSP4	4
MICRO FOOT 0.8 x 0.8*	Vishay	DFN1010D-3 (SOT1215)	3
MICRO FOOT 1 x 1.2*	Vishay	DFN1010D-3 (SOT1215)	3
MICRO FOOT 1 x 1.5*	Vishay	DFN1010D-3 (SOT1215)	3
MICRO FOOT 1 x 1*	Vishay	DFN1010D-3 (SOT1215)	3
MICRO FOOT 1.5 x 1.0	Vishay	WLCSP6	6
MICRO FOOT 1.6 x 1.6*	Vishay	DFN2020MD-6 (SOT1220)	6
MICRO FOOT*	Vishay	DFN2020MD-6 (SOT1220)	6
MicroFET	FalRchild	DFN2020MD-6 (SOT1220)	6
MicroFET 1.6 x 1.6*	FalRchild	DFN2020MD-6 (SOT1220)	6
MicroSMA	Taiwan Semiconductor	CFP2-HP (SOD323HP)	2
MicroSMP	Vishay	CFP2-HP (SOD323HP)	2
MiniMelf	Diodes Inc.	SOD80C	2
MiniMelf	ST	SOD80C	2
MiniMelf	Vishay	SOD80C	2
MP-25(K)	Renesas	TO-220 (SOT78)	3
MP-25SK	Renesas	I2PAK (SOT226)	3
MP-25ZT	Renesas	D2PAK (SOT404)	3
MP6	Renesas	DSN0603-2 (SOD962)	2
MPAK	Renesas	SOT23	3
MPAK-4R	Renesas	SOT143B	4
MPT3	Rohm	SOT89	3
PG-TD SON-8	Infineon	LFPAK56 (SOT669)	5
PG-TD- SON-8	Infineon	LFPAK56E (SOT1023)	4
PG-TDSON-8	Infineon	LFPAK56D (SOT1205)	8
PG-TDSON-8	Infineon	LFPAK56 (SOT669)	4
PG-TO220-3	Infineon	TO-220 (SOT78)	3
PG-TO262-3	Infineon	I2PAK (SOT226)	3
PG-TO263-3	Infineon	D2PAK (SOT404)	3
PG-TSDSON-8	Infineon	LFPAK33 (SOT1210)	8
PMDT	Rohm	SOD128	2
PMDU	Rohm	SOD123W	2
Power DI3333-8	Diodes Inc.	LFPAK33 (SOT1210)	8
Power DI5060-8	Diodes Inc.	LFPAK56D (SOT1205)	8
Power DI5060-8	Diodes Inc.	LFPAK56 (SOT669)	4
Power FLAT 3.3 x 3.3	ST	LFPAK33 (SOT1210)	8
Power FLAT 5x6 Dual	ST	LFPAK56D (SOT1205)	8
Power FLAT 5x6 Dual	ST	LFPAK56 (SOT669)	4
Power- DI5060-8	Diodes Inc	LFPAK56E (SOT1023)	4

Types with * show footprint compability only

Type	Competitor	Nexperia	Pins/ Leads
Power- FLAT (6x5)	ST	LFPAK56E (SOT1023)	4
Power88 (DFNW-8)	ON Semi	LFPAK88 (SOT1235)	4
PowerDI123	Diodes Inc.	SOD123F	2
PowerDI123	Diodes Inc.	SOD123W	2
PowerDI323	Diodes Inc.	SOD323F	2
PowerDI323	Diodes Inc.	CFP2-HP (SOD323HP)	2
PowerDi5	Diodes Inc.	CFP15/B (SOT1289/B)	3
PowerDI5	Diodes Inc.	CFP15B (SOT1289B)	3
PowerFLAT (6 x 5)	ST	LFPAK56 (SOT669)	5
PowerFLAT (6 x 5)	ST	LFPAK56D (SOT1205)	5
PowerPAK 1212-8	Vishay	LFPAK33 (SOT1210)	8
PowerPAK 8x8L	Vishay	LFPAK88 (SOT1235)	4
PowerPAK SC-70	Vishay	DFN2020-6 (SOT1118)	6
PowerPAK SC-70	Vishay	DFN2020MD-6 (SOT1220)	6
PowerPak SC-70-6L	Vishay	DFN2020-6 (SOT1118)	6
PowerPak SC-75-6L*	Vishay	DFN2020MD-6 (SOT1220)	6
PowerPAK SC-75*	Vishay	DFN2020MD-6 (SOT1220)	6
PowerPAK SC706L	Vishay	DFN2020-3 (SOT1061)	3
PowerPAK SO-8	Vishay	LFPAK56 (SOT669)	5
PowerPAK SO-8(L)	Vishay	LFPAK56 (SOT669)	4
PowerPAK SO-8(L)	Vishay	LFPAK56E (SOT1023)	4
PowerPAK SO-8L Dual	Vishay	LFPAK56D (SOT1205)	8
PW-Mini	Toshiba	SOT89	3
S-Flat	Toshiba	SOD123F	2
S-Flat	Toshiba	SOD123W	2
S-Mini	Toshiba	SOT23	3
S-Mini TSM	Toshiba	SOT23	3
S08	Vishay	SOT96	8
SC-70	ON Semi	SOT323	3
SC-70, 3 leads	Vishay	SOT323	3
SC-74 TSOP-6	ON Semi	SOT457	6
SC-75	ON Semi	DFN1006-3 (SOT883)	3
SC-75	Semtech	DFN1006-3 (SOT883)	3
SC-75A	Vishay	DFN1006-3 (SOT883)	3
SC-88	ON Semi	SOT363	6
SC-88A	ON Semi	SOT353	5
SC2	Toshiba	DSN0603-2 (SOD962)	2
SCS9	Diodes Inc.	SOT23	3
SC70	ON Semi	SOT323	3
SC70-3	AOS	SOT323	3
SC70-3	Vishay	SOT323	3
SC70-5L	Semtech	SOT353	5
SC70-6	AOS	SOT363	6
SC70-6	FalRchild	SOT363	6

Package cross reference list

Type	Competitor	Nexperia	Pins/ Leads
SC70-6	Vishay	SOT363	6
SC70-6L	Semtech	SOT363	6
SC74 TSOP6	Infineon	SOT457	6
SC75	Infineon	DFN1006-3 (SOT883)	3
SC75	ON Semi	DFN1006-3 (SOT883)	3
SC75A	Vishay	DFN1006-3 (SOT883)	3
SC79	Infineon	SOD523	2
SC88/SC 7 0-6/ SOT 363 6 LEAD	ON Semi	SOT363	6
SC89-3	FalRchild	DFN1006-3 (SOT883)	3
SC89-3	ON Semi	DFN1006-3 (SOT883)	3
SC89-3	Vishay	DFN1006-3 (SOT883)	3
SGP0603P2X3	Semtech	DFN0603-2 (SOD972E)	2
SL2	Toshiba	DFN0603-2 (SOD972E)	2
SlimSMAW	Vishay	CFP5 (SOD128)	2
SLP0402P2X3	Semtech	DSN0402-2 (SOD992)	2
SLP1006P2	Semtech	DFN1006-2 (SOD882)	2
SLP1006P2T	Semtech	DFN1006D-2 (SOD882D)	2
SLP1006P3	Semtech	DFN1006-3 (SOT883)	3
SLP1006P3T	Semtech	DFN1006B-3 (SOT883B)	3
SLP1610N2	Semtech	DFN1608D-2 (SOD1608)	2
SLP1610P4	Semtech	DFN2510A-10 (SOT1176)	10
SLP1713P8	Semtech	DFN1714-8 (SOT1166)	8
SLP1713P8	Semtech	DFN1714U-8 (SOT983)	8
SLP2513P12	Semtech	DFN2514-12 (SOT1167)	12
SLP3313P16	Semtech	DFN3314-16 (SOT1168)	16
SM6 VS-6	Toshiba	SOT457	6
SMA flat	ST	SOD128	2
SMAFS	Diodes Inc.	CFP5 (SOD128)	2
SMD TO-263	Renesas	D2PAK (SOT404)	3
SMD0402	Rohm	DSN0402-2 (SOD992)	2
SMD6/SMT6	Rohm	SOT457	6
SMD6/SMZ6	Rohm	SOT457	6
SMF	Vishay	CFP3 (SOD123W)	2
SMPAK	Renesas	DFN1006-3 (SOT883)	3
SMPC	Vishay	CFP15B (SOT1289B)	3
SMPc	Taiwan Semiconductor	CFP15B (SOT1289B)	3
SMPC TO-277A	Vishay	CFP15/B (SOT1289/B)	3
SMPC4.0	Taiwan Semiconductor	CFP15B (SOT1289B)	3
SMT3	Rohm	SOT23	3
SMT5*	Rohm	SOT457	6
SMT6	Rohm	SOT457	6

Type	Competitor	Nexperia	Pins/ Leads
SMZ6/SMD6	Rohm	SOT457	6
SO-8 FL	ON Semi	LFPAK56 (SOT669)	5
SO-8 FL, DFN-5	ON Semi	LFPAK56E (SOT1023)	4
SO-8FL Dual	ON Semi	LFPAK56D (SOT1205)	8
SO-8FL Dual	ON Semi	LFPAK56 (SOT669)	4
SOD-123	ST	SOD123F	2
SOD-123-FL	ON Semi	SOD123W	2
SOD-123FL	ON Semi	CFP3 (SOD123W)	2
SOD-123FL	Rohm	CFP3 (SOD123W)	2
SOD-123W	Taiwan Semiconductor	CFP3 (SOD123W)	2
SOD-128	Rohm	CFP5 (SOD128)	2
SOD-128	Taiwan Semiconductor	CFP5 (SOD128)	2
SOD-323	Diodes Inc.	SOD323	2
SOD-323	ON Semi	SOD323	2
SOD-323	ST	SOD323	2
SOD-323EP	ON Semi	CFP2-HP (SOD323HP)	2
SOD-323HE	Rohm	CFP2-HP (SOD323HP)	2
SOD-523	ON Semi	SOD523	2
SOD-523	ST	SOD523	2
SOD123F	Diodes Inc.	CFP3 (SOD123W)	2
SOD323	Infineon	SOD323	2
SOD323	Semtech	SOD323	2
SOD323	Vishay	SOD323	2
SOD523	Diodes Inc.	SOD523	2
SOD523	Semtech	SOD523	2
SOD523	Vishay	SOD523	2
SOD882	ST	DFN1006-2 (SOD882)	2
SOD882T	ST	DFN1006D-2 (SOD882D)	2
SOD923-2*	ON Semi	DFN1006-2 (SOD882)	2
SOIC-8 NB	ON Semi	SOT96	8
SON 2x2	Texas Instruments	DFN2020MD-6 (SOT1220)	6
SON 3 x 3*	Texas Instruments	DFN2020MD-6 (SOT1220)	6
SOP / DSOP Advance	Toshiba	LFPAK56E (SOT1023)	4
SOP / DSOP Advance	Toshiba	LFPAK56 (SOT669)	4
SOP-8	Renesas	SOT96	8
SOP8	Rohm	SOT96	8
SOT 143	Infineon	SOT143B	4
SOT-143	Diodes Inc.	SOT143B	4
SOT-143	Semtech	SOT143B	4
SOT-223	Diodes Inc.	SOT223	4
SOT-223	Infineon	SOT223	4
SOT-223	ON Semi	SOT223	4

Types with * show footprint compability only

Package cross reference list

Type	Competitor	Nexperia	Pins/ Leads
SOT-223	ST	SOT223	4
SOT-23	Diodes Inc.	SOT23	3
SOT-23	ON Semi	SOT23	3
SOT-323	Diodes Inc.	SOT323	3
SOT-323	ST	SOT323	3
SOT-363	Diodes Inc.	SOT363	6
SOT-89	ON Semi	SOT89	3
SOT063*	ON Semi	DFN1010B-6 (SOT1216)	6
SOT223	Diodes Inc.	SOT223	4
SOT223	FalRchild	SOT223	4
SOT223	Infineon	SOT223	4
SOT223	ON Semi	SOT223	4
SOT223	Vishay	SOT223	4
SOT23	AOS	SOT23	3
SOT23	Diodes Inc.	SOT23	3
SOT23	Infineon	SOT23	3
SOT23	ON Semi	SOT23	3
SOT23	Semtech	SOT23	3
SOT23	ST	SOT23	3
SOT23	Vishay	SOT23	3
SOT23-3	AOS	SOT23	3
SOT23-3	Diodes Inc.	SOT23	3
SOT23-3	ON Semi	SOT23	3
SOT23-5	AOS	SOT457	6
SOT23-5	Diodes Inc.	SOT457	6
SOT23-6	Diodes Inc.	SOT457	6
SOT23-6	ST	SOT457	6
SOT23-6L	Semtech	SOT457	6
SOT23F	Diodes Inc.	SOT23	3
SOT23F	Toshiba	SOT23	3
SOT26	Diodes Inc.	SOT457	6
SOT323	Diodes Inc.	SOT323	3
SOT323	FalRchild	SOT323	3
SOT323	Infineon	SOT323	3
SOT353	Diodes Inc.	SOT353	5
SOT353	Diodes Inc.	SOT363	6
SOT353	Vishay	SOT353	5
SOT363	Diodes Inc.	SOT363	6
SOT363	Infineon	SOT363	6
SOT523	Diodes Inc.	DFN1006-3 (SOT883)	3
SOT523F	FalRchild	DFN1006-3 (SOT883)	3
SOT723-3*	ON Semi	DFN1010D-3 (SOT1215)	3
SOT723*	ON Semi	DFN1010D-3 (SOT1215)	3
SOT89	Diodes Inc.	SOT89	3

Type	Competitor	Nexperia	Pins/ Leads
SOT89	Infineon	SOT89	3
SOT89-3L	Diodes Inc.	SOT89	3
SOT963	ON Semi	DFN1010-6 (SOT891)	6
SOT963*	Diodes Inc.	DFN1010B-6 (SOT1216)	6
SRP-F	Renesas	SOD123W	2
SS CSP2	Toshiba	DFN1006-3 (SOT883)	3
SSD3/SST3	Rohm	SOT23	3
SSM	Toshiba	DFN1006-3 (SOT883)	3
SSOT3	FalRchild	SOT23	3
SSOT6	FalRchild	SOT457	6
SSOT6 FLMP	FalRchild	SOT457	6
SST3	Rohm	SOT23	3
SST3/SSD3	Rohm	SOT23	3
ST01005	STM	DSN0402-2 (SOD992)	2
Stmite flat	ST	SOD123W	2
sTOLL (PG-HSOF-5)	Infineon	LFPAK88 (SOT1235)	4
Sub SMA	Taiwan Semiconductor	CFP3 (SOD123W)	2
T0263	Diodes Inc.	D2PAK(SOT404)	3
T0263-3	Infineon	D2PAK (SOT404)	3
Thin PowerPAK SC-70	Vishay	DFN2020-6 (SOT1118)	6
Thin PowerPAK SC70	Vishay	DFN2020MD-6 (SOT1220)	6
Thin PowerPAK SC75*	Vishay	DFN2020MD-6 (SOT1220)	6
TO-200 real 2pin	Infineon	TO-220-2 (SOT8021)	2
TO-220	ST	TO-220 (SOT78)	3
TO-220	Toshiba	TO-220 (SOT78)	3
TO-220	Vishay	TO-220 (SOT78)	3
TO-220 FP	Onsemi	TO-220-2 (SOT8021)	2
TO-220-2	Cree	TO-220-2 (SOT8021)	2
TO-220-2	Onsemi	TO-220-2 (SOT8021)	2
TO-220-2L	Littelfuse	TO-220-2 (SOT8021)	2
TO-220-2L	Ween	TO-220-2 (SOT8021)	2
TO-220-3	ON Semi	TO-220 (SOT78)	3
TO-220-3L	ON Semi	TO-220 (SOT78)	3
TO-220A	Rohm	TO-220-2 (SOT8021)	2
TO-220AB	Vishay	TO-220 (SOT78)	3
TO-220AB	ST	TO-220-2 (SOT8021)	2
TO-220AC	ST	TO-220-2 (SOT8021)	2
TO-220AC	Rohm	TO-220-2 (SOT8021)	2
TO-220AC2L	Rohm	TO-220-2 (SOT8021)	2
TO-220F-3FS	ON Semi	TO-220 (SOT78)	3
TO-220FM	Rohm	TO-220 (SOT78)	3
TO-220S	Renesas	D2PAK (SOT404)	3
TO-220SM	Toshiba	D2PAK (SOT404)	3

Types with * show footprint compability only

Package cross reference list

Type	Competitor	Nexperia	Pins/ Leads
TO-247	ST	TO-247-2 (SOT8022)	2
TO-247	Littelfuse	TO-247-2 (SOT8022)	2
TO-247	Rohm	TO-247-2 (SOT8022)	2
TO-247 real 2pin	Infineon	TO-247-2 (SOT8022)	2
TO-247-2	Cree	TO-247-2 (SOT8022)	2
TO-247-2	Onsemi	TO-247-2 (SOT8022)	2
TO-247-2L	Ween	TO-247-2 (SOT8022)	2
TO-252-2	Cree	DPAK RP2 (SOT8017)	2
TO-252-2L	Littelfuse	DPAK RP2 (SOT8017)	2
TO-262	Renesas	I2PAK (SOT226)	3
TO-262	Vishay	I2PAK (SOT226)	3
TO-262-2L	ON Semi	I2PAK (SOT226)	3
TO-262-3L	ON Semi	I2PAK (SOT226)	3
TO-263	Renesas	D2PAK-7 (SOT427)	7
TO-263	Renesas	D2PAK (SOT404)	3
TO-263	Vishay	D2PAK (SOT404)	3
TO-263 3-lead	Vishay	D2PAK (SOT404)	3
TO-263 real 2pin	Infineon	D2PAK R2P (SOT8018)	2
TO-263-2L	ON Semi	D2PAK (SOT404)	3
TO-263-2L	Littelfuse	D2PAK R2P (SOT8018)	2
TO-263AB	Vishay	D2PAK (SOT404)	3
TO-273-2	Cree	D2PAK R2P (SOT8018)	2
TO-277	ON Semi	CFP15B (SOT1289B)	3
TO-277A	Rohm	CFP15B (SOT1289B)	3
TO-LL	ON Semi	LFPK88 (SOT1235)	4
TO-LL (PG-HSOF-8-1)	Infineon	LFPK88 (SOT1235)	4
TO220	Infineon	TO-220 (SOT78)	3
TO220-3	Diodes Inc.	TO-220 (SOT78)	3
TO262	Infineon	I2PAK (SOT226)	3
TO263	Diodes Inc.	D2PAK (SOT404)	3
TOLG (PG-HSOG-8)	Infineon	LFPK88 (SOT1235)	4
TSLP-2-1	Infineon	DFN1006-2 (SOD882)	2
TSLP-2-7/-17	Infineon	DFN1006D-2 (SOD882D)	2
TSLP-3-1, -15	Infineon	DFN1006B-3 (SOT883B)	3
TSLP-3-4	Infineon	DFN1006-3 (SOT883)	3
TSLP-9-1	Infineon	DFN2510A-10 (SOT 1176)	10
TSMT5*	Rohm	SOT457	6
TSMT6	Rohm	SOT457	6
TSNP-2-2	Infineon	DFN1608D-2 (SOD 1608)	2
TSON Advance	Toshiba	LFPK33 (SOT1210)	8
TSOP-6	Renesas	SOT457	6
TSOP-6/ TSOP6	Vishay	SOT457	6
TSOP6	AOS	SOT457	6
TSOP6	ON Semi	SOT457	6

Type	Competitor	Nexperia	Pins/ Leads
TSOP6	Vishay	SOT457	6
TSSLP-2-1	Infineon	DSN0603-2 (SOD962)	2
TSST8*	Rohm	DFN2020MD-6 (SOT1220)	6
TUMT3	Rohm	SOT323	3
TUMT5*	Rohm	DFN2020-6 (SOT1118)	6
TUMT6*	Rohm	DFN2020-6 (SOT1118)	6
Type B 2.0 x 2.0 x 0.6			
U-DFN2020-3	Diodes Inc.	DFN2020-3 (SOT1061)	3
U-DFN2020-6	Diodes Inc.	DFN2020MD-6 (SOT1220)	6
U-DFN2523-6*	Diodes Inc.	DFN2020MD-6 (SOT1220)	6
U-WLB1510-6	Diodes Inc.	WLCSP6	6
U-WLB1515-9	Diodes Inc.	WLCSP9	9
U-WLB1515-9 (Type B)	Diodes Inc.	WLCSP9	9
U-WLB1515-9 (Type E)	Diodes Inc.	WLCSP9	9
UDFN 1.7 x 1.35, 0.4P	ON Semi	DFN1714U-8 (SOT983)	8
UDFN-6 WDFN6	ON Semi	DFN2020MD-6 (SOT1220)	6
UDFN10 2.5 x 1, 0.5P	ON Semi	DFN2510A-10 (SOT1176)	10
UDFN12 2.5 x 1.35, 0.4P	ON Semi	DFN2514-12 (SOT1167)	12
UDFN2020-6 Type B	Diodes Inc.	DFN2020-6 (SOT1118)	6
UDFN2020-6 Type E	Diodes Inc.	DFN2020MD-6 (SOT1220)	6
UDFN6	ON Semi	DFN2020MD-6 (SOT1220)	6
UDFN6	Toshiba	DFN2020-6 (SOT1118)	6
UDFN6B	Toshiba	DFN2020MD-6 (SOT1220)	6
UF6	Toshiba	SOT363	6
UF6/ USV/ US6	Toshiba	SOT363	6
UFP	Renesas	SOD523	2
UMD2	Rohm	SOD323F	2
UMD3/UMT3	Rohm	SOT323	3
UMD5/UMT5	Rohm	SOT353	5
UMD6/ UMT6	Rohm	SOT363	6
UMLP 1.6 x 1.6*	Falrchild	DFN2020MD-6 (SOT1220)	6
UMT3	Rohm	SOT323	3
UMT3F*	Rohm	SOT323	3
UMT5/ UMD5	Rohm	SOT353	5
UMT6	Rohm	SOT363	6
UMT6/ UMD6	Rohm	SOT363	6
UPAK (SOT89)	Renesas	SOT89	3
URP	Renesas	SOD323	2
US-Flat	Toshiba	SOD323F	2
US6	Toshiba	SOT363	6
US6/ UF6/ USV	Toshiba	SOT363	6
use	Toshiba	SOD323	2
USM	Toshiba	SOT323	3
USV	Toshiba	SOT353	5

Types with * show footprint compability only

Package cross reference list

Type	Competitor	Nexperia	Pins/ Leads
USV	Toshiba	SOT363	6
USV/ US6/ UF6/	Toshiba	SOT363	6
VESM*	Toshiba	DFN1010D-3 (SOT1215)	3
VML0806*	Rohm	DFN1006B-3 (SOT883B)	3
VML1006	Rohm	DFN1006-3 (SOT883)	3
VMN2*	Rohm	DFN1006-2 (SOD882)	2
VMN2*	Rohm	DFN1006D-2 (SOD882D)	2
VMN3*	Rohm	DFN1006-3 (SOT883)	3
VMT3*	Rohm	DFN1010D-3 (SOT1215)	3
VMT6*	Rohm	DFN1010B-6 (SOT1216)	6
VS6	Toshiba	SOT457	6
W-DFN3020-8*	Diodes Inc.	DFN2020-6 (SOT1118)	6
WLCSP6C	Toshiba	WLCSP6	6
WDFN-8	ON Semi	LFPK33 (SOT1210)	8
WDFN3	ON Semi	DFN2020-3 (SOT1061)	3
WDFN6	ON Semi	DFN2020-6 (SOT1118)	6
WDFN6	ON Semi	DFN2020MD-6 (SOT1220)	6
WLCSP 1 x 1*	FalRchild	WLCSP4	3
WLCSP-4*	FalRchild	WLCSP4	3
WLCSP-4*	ON Semi	WLCSP4	3
WLCSP1.6 x 1.6*	AOS	WLCSP6	6
WLCSP2	ON Semi	DSN0603-2 (SOD962)	2
WLL-2-2	Infineon	DSN0402-2 (SOD992)	2
WLL-2-2	Infineon	DSN0402B-2 (SOD992B)	2
WLP 1.0 x 1.5	Texas Instruments	WLCSP6	6
WLP1.5 x 1.5*	Texas Instruments	DFN2020MD-6 (SOT1220)	6
WLPI.O x 1.0*	Texas Instruments	DFN1010D-3 (SOT1215)	3
WLPI.O x 1.5*	Texas Instruments	DFN2020MD-6 (SOT1220)	6
X1 -DFN 1006-3	Diodes Inc.	DFN1006-3 (SOT883)	3
X1-DFN1212-3*	Diodes Inc.	DFN1010D-3 (SOT1215)	3
X1-DFN1616-6*	Diodes Inc.	DFN2020MD-6 (SOT1220)	6
X1-WLB0808-4	Diodes Inc.	WLCSP4	4
X2-DFN0606-3	Diodes Inc.	DFN0606 (SOT8001)	3
X2-DFN0806-3	Diodes Inc.	DFN1006-3 (SOT883)	3
X2-DFN1006-2	Diodes Inc.	DFN1006D-2 (SOD882D)	2
X2-DFN1006-3	Diodes Inc.	DFN1006B-3 (SOT883B)	3
X2-DFN1010-3	Diodes Inc.	DFN1010D-3 (SOT1215)	3
X2-DFN1310-6*	Diodes Inc.	DFN1010B-6 (SOT1216)	6
X2-DFN2015-3*	Diodes Inc.	DFN2020MD-6 (SOT1220)	6
X2-DFN2020-6	Diodes Inc.	DFN2020MD-6 (SOT1220)	6
X2-WLB0808-4	Diodes Inc.	WLCSP4	4
X2-WLB0808-4 (Type B)	Diodes Inc.	WLCSP4	4
X3-DFN0603-2	Diodes Inc.	DFN0603-2 (SOD972E)	2
X3-DFN0603-2	Diodes Inc.	DSN0603-2 (SOD962)	2

Types with * show footprint compability only

Type	Competitor	Nexperia	Pins/ Leads
X3DFN-2	ON Semi	DSN0603-2 (SOD962)	2
X3DFN2	ON Semi	DFN0603-2 (SOD972E)	2
XDFN3	ON Semi	DFN1006-3 (SOT883)	3
XI-DFN1006-2	Diodes Inc.	DFN1006-2 (SOD882)	2
XLLGA-3	ON Semi	DFN0606 (SOT8001)	3
μ8FL	ON Semi	LFPK33 (SOT1210)	8
μQFN-10L	ST	DFN2510A-10 (SOT1176)	10
μQFN-2L	ST	DFN1006-2 (SOD882)	2

Package cross reference matrix

Pins/ leads	Nexperia	Industry standard names	Size (l x w x h) (mm)	P _{tot} (mW)	Package	Competitor synonyms								
						Rohm	Toshiba	ON Semi	Renesas	Infineon	Diodes Inc	ST	Vishay	Semtech
2	DSN0402-2 (SOD992)		0.4 x 0.2 x 0.12			SMD0402	CL2	DSN2 0.4 x 0.2				ST01005		SLP- 0402P2X3
	DSN0402B-2 (SOD992B)		0.43 x 0.23 x 0.12											
	DFN0603-2 (SOD972E)		0.63 x 0.33 x 0.25				SL2	X3DFN2			X3-DFN0603-2			SGP- 0603P2X3
	DSN1006-2 (SOD993)		1.0 x 0.6 x 0.3					DSN2 1.0 x 0.6						
	DSN1006U-2 (SOD995)		1.0 x 0.6 x 0.3					DSN2 1.0 x 0.6						
	DFN1006-2 (SOD882)		1.0 x 0.6 x 0.48	250		(VMN2)	CTS2 (fSC)	(SOD923-2)		TSLP-2-1	XI-DFN1006-2	SOD 882 uQFN-2L	LLP1006-2M LLP1006-2L	SLP1006P2
	DFN1006D-2 (SOD882D)		1.0 x 0.6 x 0.37	250		(VMN2)	CTS2 (fSC)	DSN2 1.0 x 0.6		TSLP-2-7/ -17	X2-DFN1006-2	SOD882T	LLP1006-2L LLP1006-2M	SLP1006P2T
	DFN1608D-2 (SOD1608)		1.6 x 0.8 x 0.37	780		KMD2		DSN2 1.6 x 0.8		TSNP-2-2				SLP1610N2
	DPAK R2P (SOT817)	TO-252	6.1 x 6.6 x 2.3					DPAK		DPAK		DPAK		
	D2PAK R2P (SOT8018)	TO-263	11 x 10 x 4.3			TO-263AB		D2PAK		D2PAK		D2PAK		
	DSN0603-2 (SOD962)		0.6 x 0.3 x 0.3	525		GMD2	SC2	DSN2, X3DFN-2 WLCSFP2	MP6	TSSLP-2-1	X3-DFN0603-2	DFN2	CLP0603	SLP- 0603P2X3
	SOD80C	Mini-Melf	3.5 x 1.5 x 1.5	300		LLDS			LLD		MiniMelf	MiniMelf	MiniMelf	
	SOD123F		2.6 x 1.6 x 1.1	830								SOD-123		
	CFP3 (SOD123W)		2.6 x 1.7 x 1.0	950		SOD-123FL		SOD-123FL			SOD123F	SOD- 123W Sub SMA	SMF	
	CFP5 (SOD128)		3.8 x 2.5 x 1.0	1050		SOD-128					SMAFS	SOD-128	SlimSMAW	
	SOD323	SC-76	1.7 x 1.25 x 0.95	400			USC	SOD-323	URP	SOD323	SOD-323	SOD-323	SOD323	SOD323
	CFP2-HP (SOD323HP)		2.2 x 1.3 x 0.68			SOD-323HE		SOD-323EP			PowerDI323		MicroSMP	
	SOD323F	SC-90	1.7 x 1.25 x 0.7	830		UMD2	US-Flat							
	SOD523	SC-79	1.2 x 0.8 x 0.6	500		EMD2	ESC/TESC	SOD-523	UFP	SC79	SOD523	SOD-523	SOD523	SOD523
	TO-220-2 (SOT8021)	TO-220	10 x 15.6 x 4.4			TO-220	TO-220	TO-220	TO-220	TO-220		TO-220	TO-220	
	TO-247-2 (SOT8022)	TO-247	15.9 x 20.9 x 5			TO-247	TO-247	TO-247		TO-247		TO-247	TO-247	
3	CFP15B (SOT1289B)		5.8 x 4.3 x 0.95	2150		TO-277A		TO-277			PowerDi5	SMPC SMPC4.0	SMPC	
	DFN1006-3 (SOT883)	SC-101	1.0 x 0.6 x 0.48	250		VML1006	SS CSP2	XDFN3		TSLP-3-4	X1-DFN 1006-3			SLP1006P3
	DFN1006B-3 (SOT883B)		1.0 x 0.6 x 0.37	250		VML1006	CST3	XDFN3		TSLP-3-1, -15	X2-DFN1006-3			SLP1006P3T
	DFN1010D-3 (SOT1215)		1.1 x 1.0 x 0.37	325		(VMT3)	(VESM)	(SOT723)			X2-DFN1010-3			
	DFN2020-3 (SOT1061)	HUSON3	2.0 x 2.0 x 0.62	1300				WDFN3			U-DFN2020-3 Type B 2.0 x 2.0 x 0.6		PowerPAK SC706L	
	DFN2020D-3 (SOT1061D)		2.0 x 2.0 x 0.62	1300				WDFN3			U-DFN2020-3 Type B 2.0 x 2.0 x 0.6		PowerPAK SC706L	
	D ² PAK (SOT404)		11.0 x 11.0 x 4.3			LPDS/ LPTS	TO-220SM D ² PAK	D ² PAK D ² PAK 3 TO-263-2L	TO-220S / SMD TO-263 LDPK(S)-11 MP-25Z	D ² PAK, PG- TO263-3	TO263 (D ² PAK)	D ² PAK, H ² PAK-2	TO-263 3-lead TO-263AB / D ² PAK TO-263	
	SOT23		2.9 x 1.3 x 1.0	250		SSD3/ SST3	S-Mini TSM	SOT-23	MPAK	SOT23	SOT-23	SOT23	SOT23	SOT23
	SOT89	SC-62	4.5 x 2.5 x 1.5	1300		MPT3	PW-Mini	SOT-89	UPAK (SOT89)	SOT89	SOT89			
	SOT323	SC-70	2.0 x 1.25 x 0.95	200		UMD3/ UMT3 TUMT3	USM	SC-70	CMAK/ CMPAK	SOT323	SOT-323	SOT-323	SC-70 3 leads	SOT-323
	TO-220 (SOT78)		15.6 x 10 x 4.4			TO-220FM	TO-220	TO-220-3L, TO-220F-3FS, TO-220-3	MP-25(K)	PG- TO220-3, TO220	TO220-3	TO-220	TO-220, TO- 220AB	
	I ² PAK (SOT226)		11 x 10 x 4.3					I ² PAK, TO-262-2L, TO-262-3L	MP-25SK, TO-262			I ² PAK	TO-262	

Types in brackets (...) show footprint compatibility only

Package cross reference matrix

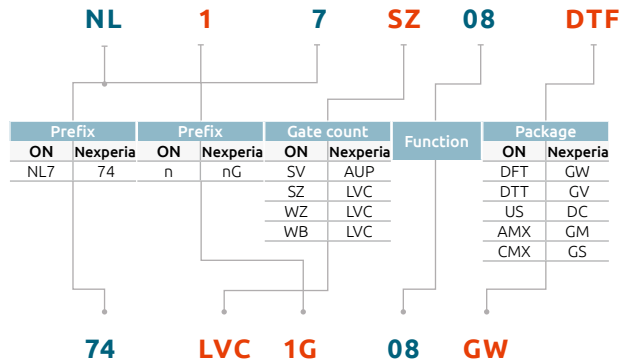
Pins/ leads	Nexperia	Industry standard names	Size (l x w x h) (mm)	P _{tot} (mW)	Package	Competitor synonyms								
						Rohm	Toshiba	ON Semi	Renesas	Infineon	Diodes Inc	ST	Vishay	Semtech
4	LFPAK56 (SOT669)	Power-S08	4.9 x 4.45 x 1.0	395W		HSOP8 (Single)	SOP / DSOP Advance	SO-8 FL, DFN-5, LFPAK4	LFPAK56, HSOP-8	PG-TD- SON-8	Power- Di5060-8	Power- FLAT (6x5)	PowerPAK SO-8(L)	
	SOT143B		2.9 x 1.3 x 1.0	250			CP4		MPAK-4R	SOT143	SOT-143			SOT-143
	LFPAK56E (SOT1023)		6.2 x 5.3 x 1.1	500W		HSOP8 (Single)	SOP / DSOP Advance	SO-8 FL, DFN-5, LFPAK8	LFPAK56, HSOP-8	PG-TD- SON-8	Power- Di5060-8	Power- FLAT (6x5)	PowerPAK SO-8(L)	
	SOT223	SC-73	6.5 x 3.5 x 1.65	1700				SOT-223		SOT223	SOT-223		SOT223	
	LFPAK88 (SOT1235)		8 x 8 x 1.6	375W			D²PAK+	TO-LL Power88 D²PAK-3 D²PAK-7		TO-LL sTOLL TOLG D²PAK D²PAK7P		D²PAK H²PAK-2 H²PAK-6	PowerPAK 8x8L D²PAK-3 D²PAK-7	
5	SOT353	SC-88 A	2.0 x 1.25 x 0.95	300		UMD5/ UMT5	USV	SC-88 A	CMPAK- SC0		SOT353		SOT353	SC70-5L
6	DFN1010-6 (SOT891)	XSON6	1.0 x 1.0 x 0.48				CS6	SOT963						
	DFN1010B-6 (SOT1216)		1.1 x 1.0 x 0.37	350		(VMT6)	(FS6)	(SOT063)			(SOT963)			
	DFN1410-6 (SOT886)	XSON6	1.45 x 1.0 x 0.48	250										SLP1510N6
	DFN2020-6 (SOT1118)		2.0 x 2.0 x 0.62	1300		HU- ML2020L8 (Dual)	UDFN6	6 Lead DFN WDFN6			UDFN2020- 6 Type B		PowerPAK SC-70 Thin PowerPAK SC-70	
	DFN2020D-6 (SOT1118D)		2.0 x 2.0 x 0.62	1300		HU- ML2020L8 (Dual)	UDFN6	6 Lead DFN WDFN6			UDFN2020- 6 Type B		PowerPAK SC-70 Thin PowerPAK SC-70	
	DFN- 2020MD-6 (SOT1220)		2.0 x 2.0 x 0.62	1250		HU- ML2020L8 (Single)	UDFN6B	UDFN-6 WDFN6			UDFN2020- 6 Type E		PowerPAK SC-70 Thin PowerPAK SC-70	
	SOT363	SC-88	2.0 x 1.25 x 0.95	300		UMD6/ UMT6	US6 UF6 USV	SC-88	CMPAK-6	SOT363	SOT-363		SC70-6	SC70-6L
	SOT457	SC-74	2.9 x 1.5 x 1.0	750		SMD6/ SMT6	SM6 VS-6	SC-74 TSOP-6	TSOP-6	SC74 TSOP6	SOT23-6 SOT26		TSOP6 TSOP-6	SOT23-6L
8	LFPAK33 (SOT1210)		3.3 x 3.3 x 0.85	790		HSMT8	TSOP Advance	µ8FL, WDFN-8		PG-TSD- SON-8	Power Di3333-8	Power FLAT 3.3 x 3.3	PowerPAK 1212-8	
	LFPAK56D (SOT1205)		4.9 x 4.45 x 1.0	680		HSOP8 (Dual)		SO-8FL Dual, DFN-8	HSOP-8 dual	PG-TDSON-8	Power Di5060-8	Power FLAT 5x6 Dual	PowerPAK SO-8L Dual	
	DFN1714-8 (SOT 1166)	HUSON8	1.7 x 1.35 x 0.52											SLP1713P8
	DFN1714U-8 (SOT983)	HXSON8	1.7 x 1.35 x 0.48					UDFN 1.7 x 1.35, 0.4P						SLP1713P8
10	DFN2510-10 (SOT 1165)	XSON10	2.5 x 1.0 x 0.48					UDFN10 2.5 x 1, 0.5P		TSLP-9-1		pQFN-10L		SLP1610P4
	DF- N2510A-10 (SOT1176)	XSON10	2.5 x 1.0 x 0.48					UDFN10 2.5 x 1, 0.5P		TSLP-9-1		pQFN-10L		SLP1610P4
	DFN2626-10 (SOT 1197)		2.6 x 2.6 x 0.48					UDFN10 2.6 x 2.6, 0.5P						SLP2626P10
12	DFN2512-12 (SOT 1158)	HXSON12	2.5 x 1.2 x 0.48					UDFN12, 2.5 x 1.2, 0.4P						
	DFN2514-12 (SOT 1167)	HUSON12	2.5 x 1.35 x 0.53					UDFN12, 2.5 x 1.35, 0.4P						SLP2513P12
16	DFN3312-16 (SOT 1159)	HXSON16	3.3 x 1.2 x 0.48					UDFN 16, 3.5 x 1.2, 0.4P						
	DFN3314-16 (SOT 1168)	HUSON16	3.3 x 1.35 x 0.53											SLP3313P16

Types in brackets (...) show footprint compatibility only

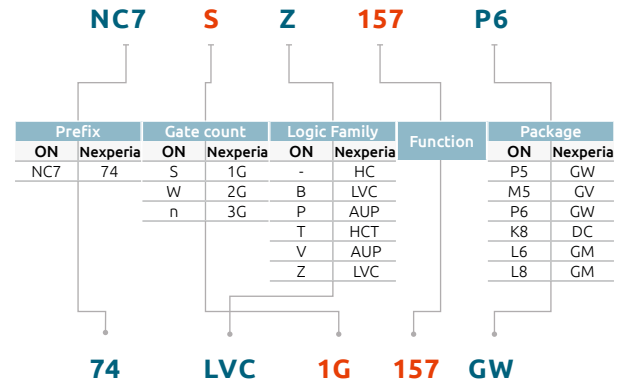
Competitive cross reference - Analog & logic ICs

This cross reference allows you to match a competitor's part number to a Nexperia part number. Once you have the equivalent part number, check the Nexperia website www.nexperia.com/logic to confirm that the particular configuration is released.

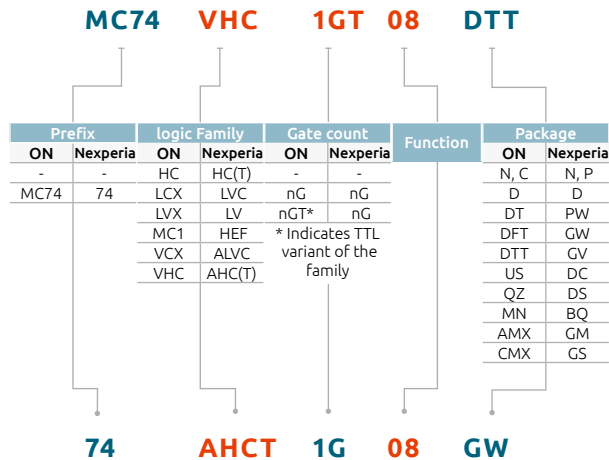
On semiconductor low pin count logic



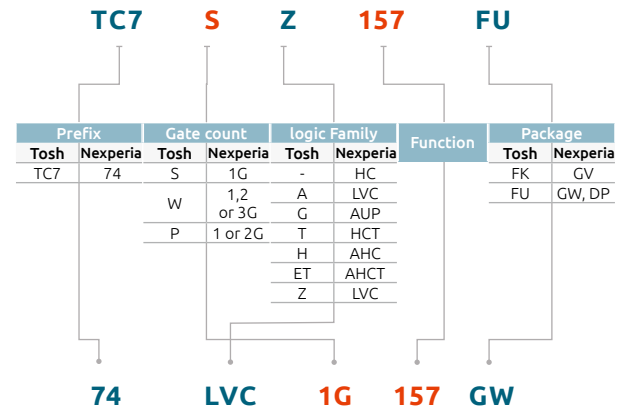
ON semiconductor tiny logic



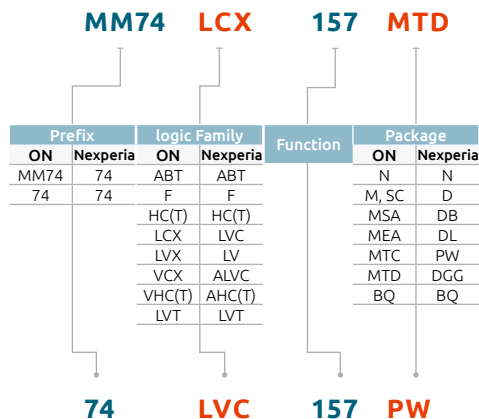
On semiconductors logic



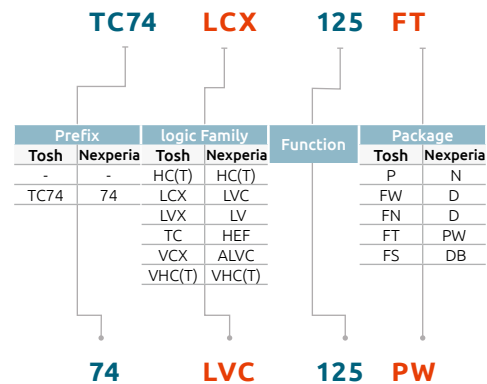
Toshiba one gate



ON semiconductor standard logic



Toshiba standard logic



Texas instruments logic

Prefix		Logic Family		Gate count		Function	Package	
TI	Nexperia	TI	Nexperia	TI	Nexperia		TI	Nexperia
-	-	ABT	ABT	-	-		E	P
SN74	74	AHC(T)	AHC(T)	nG	nG		M	T
SN54	74	ALVC	ALVC	nT	nT		D	D
		ALVT	ALVT				PW	PW, TT
		AUP	AUP				DB	DB
		AVC	AVC				DL	DL
		CBT	CBT				DGG	DGG
		CBT LV	CBT LV				DGV	DGV
		CD	HEF				GKE	EV
		F	F				ZKE	EC
		HC(T)	HC(T)				DCK	GW
		LV	LV				DBV	GV
		LVC	LVC				DCU	DC
		LVT	LVT				DCT	DP
		TPIC6C	NPIC6C				DRY	GM
							YZP	GM

IDT logic

Prefix		logic Family		Function	Package	
Tosh	Nexperia	IDT	Nexperia		IDT	Nexperia
TC7	74	ALVC	ALVC		BF	EC
54	74	CBTLV	CBTLV		CD	N
		FCT	ABT		DC, PS	D
		LVC	LVC		DJ, PF	DGV
		QS	CBT		PA	DGG
					PC	DS, DK
					PG	PW
					PV	DL
					PY	DB

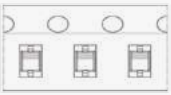
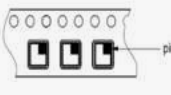
Diodes Inc. logic

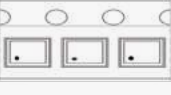
Prefix		logic Family		Gate count		Function	Packages	
Diodes	Nexperia	Diodes	Nexperia	Diodes	Nexperia		Diodes	Nexperia
74	74	AHC(T)	AHC(T)	-	-		T14	PW
		LVC	LVC	nG	nG		S14	D
							SE	GW
							DW	GW
							W5	GV
							FZ4	GM
							FW4	GF

Renesas logic

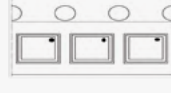
Prefix		logic Family		Gate count		Function	package	
Ren.	Nexperia	Ren.	Nexperia	Ren.	Nexperia		Ren.	Nexperia
HD74	74	ALVC	ALVC	-	-		CM	GW
		BC, LS	ABT	nG	nG		FP	DC
		CBT	CBT				P	N
		HC(T)	HC(T)				T	PW
		LV	LV				US	DC
		LVC	LVC					
		LVT	LVT					

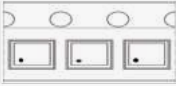
Product orientation (tape and reel pack)

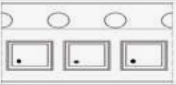
2 pin packages	Orientation in tape	Package	Packing 12NC ending		Orientation in tape	Package	Packing 12NC ending
		DFN1006-2 (SOD882)	315			DPAK (SOT8017)	118
		DFN1006D-2 (SOD882D)	315			D ² PAK (SOT8018)	118
		DFN1608D-2 (SOD1608)	315				
		DFN1006BD-2 (SOD882BD)	315				
		DSN0603-2 (SOD962)	315				
		DFN0603-2 (SOD972E)	317				
		DFN0603-3 (SOT8013)	317				
		DSN0402-2 (SOD992)	315				
		DSN0402B-2 (SOD992B)	315				
		DSN1006-2 (SOD993)	315				
		DSN1006-2 (SOD993B)	315				
		DSN1006U-2 (SOD995)	315				
		DSN1608-2 (SOD963&964)	315				
		SOD80	115, 135				
		SOD123F	115				
		CFP3 (SOD123W)	115				
		SOD123	115, 118				
		CFP5 (SOD128)	115				
		CFP2-HP (SOD323HP)	115				
		SOD323	115, 135				
		SOD323F	115				
		SOD523	115, 135, 315, 335				

3 pin packages	Orientation in tape	Package	Packing 12NC ending		Orientation in tape	Package	Packing 12NC ending
		SOT89	146			DFN1010D-3 (SOT1215)	147
						DFN2020-3 (SOT1061)	115, 135
						DFN2020D-3 (SOT1061D)	115, 135
						SOT89	115, 135
						D ² PAK (SOT404)	118
						SOT89	147
						CFP15 (SOT1289)	139, 146
						CFP15B (SOT1289B)	139
						DSN1006 (SOT8007)	326
						DSN1010-3 (SOT8007)	315
		DFN1006-3 (SOT883)	315			DFN0606-3 (SOT8001)	125
		DFN1006B-3 (SOT883B)	315				
		SOT23	185, 215, 235				
		SOT323	115, 135				
		SOT416	115, 135				
		SOT663	115				

4 pin packages	Orientation in tape	Package	Packing 12NC ending		Orientation in tape	Package	Packing 12NC ending
		WLCSP4 (0808)	084				
		LFPK56 (SOT669)	115				
		LFPK56E (SOT1023)	115				
		LFPK56-UL2595 (SOT1023A)	115				
		LFPK88 (SOT1235)	118				
		SOT143B	215, 235				
		SOT223	115, 135				
		DFN1010-4 (SOT1194)	115				

5 pin packages	Orientation in tape	Package	Packing 12NC ending		Orientation in tape	Package	Packing 12NC ending
		WLCSP5 (1208)	087			SOT353	115, 135
						SOT665	115
		SOT753	125				
		X2SON5 (SOT1226)	125				
		UMTS (SOT353-1)	125				
		SO5 (SOT753)	125				

6 pin packages	Orientation in tape	Package	Packing 12NC ending	Orientation in tape	Package	Packing 12NC ending
		DFN1410-6 (SOT886)	115		DFN1412-6 (SOT1268)	147
		DFN2020MD-6 (SOT1220)	184		DFN2020D-6 (SOT1118D)	115
		LFPK33 (SOT1210)	115		DFN2020MD-6 (SOT1220)	115
		LFPK56D (SOT1205)	115		SOT363	115, 135
		WLCSP6 (1510)	023		SOT457	115, 135
		XSON6 (SOT1202)	125		X2SON6 (SOT1255)	147
		XSON6 (SOT886)	125		DFN0606B-6	147
		DFN1308-6 (SOT8006)	315		SOT666	315
		DFN1308-6 (SOT8006B)	315			
		DFN2020M-6 (SOT1220-2)	115			
		DFN1010-6 (SOT891)	132		DFN0606 (SOT8001)	147
		DFN1010E-6 (SOT1202)	132			
		DFN1410-6 (SOT886)	132			
		DFN2020MD-6 (SOT1220)	125			
		SOT363	125, 165			
		SOT457	125, 165			
		SC-88 (SOT363)	125			
		SC-74 (SOT457)	125			

multi I/O pin packages	Orientation in tape	Package	Packing 12NC ending	Orientation in tape	Package	Packing 12NC ending
		DFN2110-9 (SOT1178)	115		DHXQFN14 (SOT8014-1)	147
		DFN2111-7 (SOT1358)	471			
		DFN2510A-10 (SOT1176)	115			
		DFN2520-9 (SOT1333)				
		DFN2520-9 (SOT1333)				
		DFN2520-9 (SOT1333)				
		DFN2520-9 (SOT1333)				
		DFN5050-32 (SOT617-3)				
		DHXQFN16 (SOT8016-1)	115			
		DHXQFN20 (SOT8020-1)	115			
		DHXQFN24 (SOT8024-1)	115			
		XSON8 (SOT1116)	115			
		X2SON8 (SOT1233-2)	115			
		XSON8 (SOT1203)	115			
		XSON8 (SOT833-1)	115			
		TSSOP8 (SOT530-1)	118			
		TSSOP10 (SOT552-1)	118			
		XQFN10 (SOT1160-1)	115			
		XQFN12 (SOT1174-1)	115			
		DHVQFN14 (SOT762-1)	115			
		TSSOP14 (SOT402-1)	118			
		TSSOP16 (SOT403-1)	118			
		SO16 (SOT109-1)	118			
		TSSOP20 (SOT360-1)	118			
		SO20 (SOT163-1)	118			
		DHXQFN20 (SOT1045-2)	115			
		DHVQFN20 (SOT764-1)	115			
		DHVQFN24 (SOT815-1)	118			
		TSSOP24 (SOT355-1)	118			
		TSSOP48 (SOT362-1)	118			
		TSSOP48 (SOT480-1)	118			
		TSSOP56 (SOT364-1)	118			
		VSSOP8 (SOT765-1)	125			
		TSSOP8 (SOT505-2)	125			

Types in **bold red** are in development, types in **bold** represent new products

Type number	Page Number	Type number	Page Number	Type number	Page Number	Type number	Page Number	Type number	Page Number
1PS10SB82.....	63	74ABT162245A.....	171	74AHC125.....	164	74AHCT04A.....	164	74ALVC32-Q100.....	146
1PS70SB20.....	68	74ABTH162245A.....	171	74AHC125-Q100.....	144	74AHCT04-Q100.....	144	74ALVC74.....	182
1PS70SB82.....	63	74AHC00.....	174	74AHC126.....	164	74AHCT07A.....	164	74ALVC125.....	165
1PS70SB84.....	63	74AHC00-Q100.....	146	74AHC126-Q100.....	144	74AHCT08.....	173	74ALVC125-Q100.....	144
1PS70SB85.....	63	74AHC1G00.....	174	74AHC132.....	174	74AHCT08-Q100.....	146	74ALVC244.....	165
1PS70SB86.....	63	74AHC1G00-Q100.....	157	74AHC132.....	179	74AHCT14.....	164	74ALVC245.....	171
1PS74SB23.....	68	74AHC1G02.....	176	74AHC132-Q100.....	147	74AHCT14.....	179	74ALVC373.....	184
1PS76SB10 (-Q)	63	74AHC1G02-Q100.....	157	74AHC138.....	187	74AHCT14A.....	164	74ALVC374.....	182
1PS76SB17.....	63	74AHC1G04.....	164	74AHC138-Q100.....	151	74AHCT14-Q100.....	147	74ALVC541.....	165
1PS76SB21 (-Q)	63	74AHC1G04-Q100.....	155	74AHC139.....	187	74AHCT17A.....	164	74ALVC541-Q100.....	144
1PS76SB31 (-Q)	63	74AHC1G07.....	164	74AHC139-Q100.....	151	74AHCT17A.....	179	74ALVC573.....	184
1PS76SB40 (-Q)	63	74AHC1G07-Q100.....	155	74AHC157.....	188	74AHCT30.....	174	74ALVC574.....	182
1PS76SB70 (-Q)	63	74AHC1G08.....	173	74AHC157-Q100.....	151	74AHCT30-Q100.....	146	74ALVC16244.....	165
1PS79SB10 (-Q)	63	74AHC1G08-Q100.....	157	74AHC164.....	185	74AHCT32.....	175	74ALVC16245.....	171
1PS79SB17.....	63	74AHC1G09.....	173	74AHC164-Q100.....	149	74AHCT32-Q100.....	146	74ALVC164245.....	191
1PS79SB30 (-Q)	63	74AHC1G09-Q100.....	157	74AHC244.....	164	74AHCT74.....	182	74ALVC164245-Q100.....	152
1PS79SB31 (-Q)	63	74AHC1G14.....	164	74AHC244-Q100.....	144	74AHCT74-Q100.....	147	74ALVCH16244.....	165
1PS79SB40 (-Q)	63	74AHC1G14.....	179	74AHC245.....	171	74AHCT86.....	177	74ALVCH16245.....	171
1PS79SB70 (-Q)	63	74AHC1G14-Q100.....	159	74AHC245-Q100.....	145	74AHCT86-Q100.....	146	74ALVCH16373.....	184
1PS88SB48 (-Q)	63	74AHC1G17.....	164	74AHC257.....	188	74AHCT123A.....	189	74ALVCH16374.....	182
1PS88SB82.....	63	74AHC1G17.....	179	74AHC257-Q100.....	151	74AHCT123A-Q100.....	152	74ALVCH16500.....	171
1PS300 (-Q).....	55	74AHC1G17-Q100.....	155	74AHC273.....	182	74AHCT125.....	164	74ALVCH16501.....	171
1PS301 (-Q).....	55	74AHC1G32.....	175	74AHC273-Q100.....	147	74AHCT125-Q100.....	144	74ALVCH16543.....	171
1PS302 (-Q).....	55	74AHC1G32-Q100.....	157	74AHC373.....	184	74AHCT126.....	164	74ALVCH16600.....	171
2N700BKM.....	118	74AHC1G66.....	193	74AHC374.....	182	74AHCT126-Q100.....	144	74ALVCH16601.....	171
2N7002AK-Q.....	108	74AHC1G66-Q100.....	163	74AHC374-Q100.....	147	74AHCT132.....	174	74ALVCH16646.....	171
2N7002AKQB-Q.....	108	74AHC1G79.....	182	74AHC541.....	164	74AHCT132.....	179	74ALVCH16652.....	171
2N7002AKS-Q.....	108	74AHC1G79-Q100.....	160	74AHC541-Q100.....	144	74AHCT132-Q100.....	147	74ALVCH16821.....	182
2N7002AKW-Q.....	108	74AHC1G86.....	177	74AHC573.....	184	74AHCT138.....	187	74ALVCH16823.....	182
2N7002BK.....	108	74AHC1G86-Q100.....	157	74AHC573-Q100.....	148	74AHCT138-Q100.....	151	74ALVCH16825.....	165
2N7002BKMB.....	118	74AHC1G125.....	164	74AHC574.....	182	74AHCT139.....	187	74ALVCH16827.....	165
2N7002BKS.....	108	74AHC1G125-Q100.....	155	74AHC594.....	185	74AHCT139-Q100.....	151	74ALVCH16841.....	184
2N7002BKW.....	108	74AHC1G126.....	164	74AHC594-Q100.....	149	74AHCT157.....	188	74ALVCH16843.....	184
2N7002KQB.....	108	74AHC1G126-Q100.....	155	74AHC595.....	185	74AHCT157-Q100.....	151	74ALVCH16952.....	171
2N7002NXAK.....	123	74AHC1G4208.....	186	74AHC595-Q100.....	149	74AHCT164.....	185	74ALVCH162244.....	165
2N7002NXBK.....	123	74AHC1G4208-Q100.....	160	74AHC9541A.....	164	74AHCT164-Q100.....	149	74ALVCH162245.....	171
2PA1576Q (-Q).....	23	74AHC1G4210.....	186	74AHCT00.....	174	74AHCT240.....	164	74ALVCH162601.....	171
2PA1576R (-Q).....	23	74AHC1G4210-Q100.....	160	74AHCT00-Q100.....	146	74AHCT240-Q100.....	144	74ALVCH162827.....	165
2PA1576S (-Q).....	23	74AHC1G4212.....	186	74AHCT1G00.....	174	74AHCT244.....	165	74ALVT16244.....	165
2PA1774QM (-Q).....	23	74AHC1G4212-Q100.....	160	74AHCT1G00-Q100.....	157	74AHCT244A.....	165	74ALVT16373.....	184
2PA1774RM (-Q).....	23	74AHC1G4214.....	186	74AHCT1G02.....	176	74AHCT244-Q100.....	144	74ALVT16821.....	182
2PA1774SM (-Q).....	23	74AHC1G4214-Q100.....	160	74AHCT1G02-Q100.....	157	74AHCT245.....	171	74ALVT16823.....	182
2PB709ARL (-Q).....	23	74AHC1G4215.....	186	74AHCT1G04.....	164	74AHCT245A.....	171	74ALVT16827.....	165
2PB709ART (-Q).....	23	74AHC1G4215-Q100.....	160	74AHCT1G04-Q100.....	155	74AHCT245-Q100.....	145	74ALVT162245.....	171
2PB709ARW.....	23	74AHC1GU04.....	164	74AHCT1G08.....	173	74AHCT257.....	188	74ALVT162821.....	182
2PB709ASL (-Q).....	23	74AHC1GU04-Q100.....	155	74AHCT1G08-Q100.....	157	74AHCT257-Q100.....	151	74ALVT162823.....	182
2PB709ASW.....	23	74AHC02.....	176	74AHCT1G14.....	164	74AHCT273.....	182	74ALVT162827.....	165
2PB709BRL (-Q).....	23	74AHC2G00.....	174	74AHCT1G14.....	179	74AHCT273-Q100.....	147	74AUP1G00.....	174
2PB709BSL.....	23	74AHC2G00-Q100.....	157	74AHCT1G14-Q100.....	159	74AHCT374.....	182	74AUP1G00 Q100.....	157
2PB710ARL (-Q).....	23	74AHC2G08.....	173	74AHCT1G17.....	164	74AHCT374-Q100.....	147	74AUP1G02.....	176
2PB710ASL (-Q).....	23	74AHC2G08-Q100.....	157	74AHCT1G17.....	179	74AHCT541.....	165	74AUP1G02-Q100.....	157
2PB1219AQ.....	23	74AHC2G32.....	175	74AHCT1G17-Q100.....	155	74AHCT541A.....	165	74AUP1G04.....	165
2PB1219AR.....	23	74AHC2G32-Q100.....	157	74AHCT1G32.....	175	74AHCT541-Q100.....	144	74AUP1G04-Q100.....	155
2PB1219AS.....	23	74AHC2G125.....	164	74AHCT1G32-Q100.....	157	74AHCT573.....	184	74AUP1G06.....	165
2PC4081Q (-Q).....	22	74AHC2G125-Q100.....	155	74AHCT1G66.....	193	74AHCT573-Q100.....	148	74AUP1G06-Q100.....	155
2PC4081R (-Q).....	22	74AHC2G126.....	164	74AHCT1G66-Q100.....	163	74AHCT574.....	182	74AUP1G07.....	165
2PC4081S (-Q).....	22	74AHC2G126-Q100.....	155	74AHC1G79.....	182	74AHCT594.....	185	74AUP1G07-Q100.....	155
2PC4617QMB.....	22	74AHC2G241.....	164	74AHCT1G79-Q100.....	160	74AHCT594-Q100.....	149	74AUP1G08-Q100.....	157
2PC4617RMB.....	22	74AHC2G241-Q100.....	155	74AHCT1G86.....	177	74AHCT595.....	185	74AUP1G09-Q100.....	157
2PD601ARL.....	22	74AHC02-Q100.....	146	74AHCT1G86-Q100.....	157	74AHCT595-Q100.....	149	74AUP1G14.....	165
2PD601ART (-Q).....	22	74AHC3G04.....	164	74AHCT1G125.....	164	74AHCU04.....	165	74AUP1G14.....	179
2PD601ARW (-Q).....	22	74AHC3G04-Q100.....	155	74AHCT1G125-Q100.....	155	74AHCU04-Q100.....	144	74AUP1G14-Q100.....	159
2PD601ASL.....	22	74AHC3G14.....	164	74AHCT1G126.....	164	74AHCV05A.....	165	74AUP1G16.....	165
2PD601ASW (-Q).....	22	74AHC3G14.....	179	74AHCT1G126-Q100.....	155	74AHCV05A.....	179	74AUP1G17.....	179
2PD601BRL.....	22	74AHC3G14-Q100.....	159	74AHCT02.....	176	74AHCV07A.....	165	74AUP1G17-Q100.....	159
2PD601BSL.....	22	74AHC3GU04.....	164	74AHCT2G00.....	174	74AHCV07A.....	179	74AUP1G18.....	187
2PD602AQL (-Q).....	22	74AHC3GU04-Q100.....	155	74AHCT2G00-Q100.....	157	74AHCV14A.....	165	74AUP1G19.....	187
2PD602ARL.....	22	74AHC04.....	164	74AHCT2G08.....	173	74AHCV14A.....	179	74AUP1G32.....	175
2PD602ASL (-Q).....	22	74AHC04-Q100.....	144	74AHCT2G08-Q100.....	157	74AHCV17A.....	165	74AUP1G32-Q100.....	157
2PD1820AR (-Q).....	22	74AHC08.....	173	74AHCT2G32.....	175	74AHCV17A.....	179	74AUP1G34.....	165
2PD1820AS (-Q).....	22	74AHC08-Q100.....	146	74AHCT2G32-Q100.....	157	74AHCV244A.....	165	74AUP1G34-Q100.....	155
74ABT00.....	174	74AHC14.....	164	74AHC2G125.....	165	74AHCV244A.....	179	74AUP1G38.....	174
74ABT04.....	164	74AHC14.....	179	74AHC2G125-Q100.....	155	74AHCV245A.....	171	74AUP1G57.....	178
74ABT08.....	173	74AHC14-Q100.....	147	74AHCT2G126.....	165	74AHCV245A.....	179	74AUP1G57.....	179
74ABT32.....	175	74AHC30.....	174	74AHCT2G126-Q100.....	155	74AHCV541A.....	165	74AUP1G58.....	178
74ABT74.....	182	74AHC30-Q100.....	146	74AHCT2G241.....	165	74AHCV541A.....	179	74AUP1G58.....	179
74ABT125.....	164	74AHC32.....	175	74AHCT2G241-Q100.....	155	74ALVC00.....	174	74AUP1G74.....	182
74ABT126.....	164	74AHC32-Q100.....	146	74AHCT02-Q100.....	146	74ALVC00-Q100.....	146	74AUP1G74-Q100.....	160
74ABT244.....	164	74AHC74.....	182	74AHCT3G04.....	165	74ALVC02.....	176	74AUP1G79.....	182
74ABT245.....	171	74AHC74-Q100.....	147	74AHCT3G04-Q100.....	155	74ALVC04.....	165	74AUP1G80.....	182
74ABT16240A.....	164	74AHC86.....	177	74AHCT3G14.....	165	74ALVC08.....	173	74AUP1G86.....	177
74ABT16244A.....	164	74AHC86-Q100.....	146	74AHCT3G14.....	179	74ALVC14.....	165	74AUP1G86-Q100.....	157
74ABT16245B.....	171	74AHC123A.....	189	74AHCT3G14-Q100.....	159	74ALVC14.....	179	74AUP1G97.....	178
74ABT162244.....	164	74AHC123A-Q100.....	152	74AHCT04.....	164	74ALVC32.....	175	74AUP1G97.....	179

Types in **bold red** are in development, types in **bold** represent new products

Type number	Page Number	Type number	Page Number	Type number	Page Number	Type number	Page Number	Type number	Page Number
74AUP1G98.....	178	74AUP2G79-Q100.....	160	74CBTLV3257.....	194	74HC10.....	174	74HC299-Q100.....	149
74AUP1G98.....	179	74AUP2G80.....	182	74CBTLV3257-Q100.....	154	74HC10-Q100.....	146	74HC365.....	167
74AUP1G125.....	165	74AUP2G86.....	177	74CBTLV3306.....	194	74HC11.....	173	74HC365-Q100.....	144
74AUP1G125-Q100.....	155	74AUP2G97.....	178	74CBTLV3384.....	194	74HC14.....	166	74HC366.....	167
74AUP1G126.....	165	74AUP2G97.....	179	74CBTLV3861.....	194	74HC14.....	180	74HC366-Q100.....	144
74AUP1G132.....	174	74AUP2G98.....	178	74CBTLVD3244.....	194	74HC14-Q100.....	147	74HC367.....	167
74AUP1G132.....	179	74AUP2G98.....	179	74CBTLVD3245.....	194	74HC20.....	174	74HC368.....	167
74AUP1G132-Q100.....	159	74AUP2G125.....	166	74CBTLVD3245-Q100.....	154	74HC21.....	173	74HC373.....	184
74AUP1G157.....	188	74AUP2G126.....	166	74CBTLVD3384.....	194	74HC27.....	176	74HC373-Q100.....	148
74AUP1G157-Q100.....	161	74AUP2G132.....	174	74CBTLVD3861.....	194	74HC30.....	174	74HC374.....	182
74AUP1G158.....	188	74AUP2G132.....	179	74HC00.....	174	74HC32.....	175	74HC377.....	183
74AUP1G175.....	182	74AUP2G157.....	188	74HC00-Q100.....	146	74HC42.....	187	74HC377-Q100.....	148
74AUP1G175-Q100.....	160	74AUP2G240.....	166	74HC1G00.....	174	74HC73.....	183	74HC390.....	186
74AUP1G240.....	165	74AUP2G241.....	166	74HC1G00-Q100.....	157	74HC73-Q100.....	147	74HC393.....	186
74AUP1G332.....	175	74AUP2G0604.....	178	74HC1G02.....	176	74HC74.....	183	74HC393-Q100.....	150
74AUP1G373.....	184	74AUP2G3404.....	178	74HC1G02-Q100.....	157	74HC74-Q100.....	147	74HC423.....	189
74AUP1G373-Q100.....	160	74AUP2G3407.....	178	74HC1G04.....	166	74HC75.....	184	74HC540.....	167
74AUP1G374.....	182	74AUP2GU04.....	166	74HC1G04-Q100.....	155	74HC85.....	189	74HC540-Q100.....	144
74AUP1G374-Q100.....	160	74AUP2GU04-Q100.....	155	74HC1G08.....	173	74HC86.....	177	74HC541.....	167
74AUP1G386.....	177	74AUP3G04.....	166	74HC1G08-Q100.....	157	74HC107.....	182	74HC541-Q100.....	144
74AUP1G0832.....	178	74AUP3G07.....	166	74HC1G14.....	166	74HC107-Q100.....	147	74HC573.....	184
74AUP1G885.....	178	74AUP3G14.....	166	74HC1G14.....	180	74HC109.....	182	74HC573-Q100.....	148
74AUP1G3208.....	178	74AUP3G14.....	179	74HC1G14-Q100.....	159	74HC109-Q100.....	147	74HC574.....	183
74AUP1G3208.....	178	74AUP3G16.....	166	74HC1G32.....	175	74HC112.....	182	74HC574-Q100.....	148
74AUP1GU04.....	165	74AUP3G17.....	166	74HC1G32-Q100.....	157	74HC123.....	189	74HC590.....	186
74AUP1T00.....	174	74AUP3G17.....	180	74HC1G66.....	193	74HC123-Q100.....	152	74HC594.....	185
74AUP1T00.....	190	74AUP3G34.....	166	74HC1G66-Q100.....	163	74HC125.....	166	74HC594-Q100.....	149
74AUP1T02.....	176	74AUP3G0434.....	178	74HC1G86.....	177	74HC125-Q100.....	144	74HC595.....	185
74AUP1T02.....	190	74AUP3G3404.....	178	74HC1G86-Q100.....	157	74HC126.....	166	74HC595-Q100.....	149
74AUP1T04.....	165	74AVC1T45.....	191	74HC1G125.....	166	74HC126-Q100.....	144	74HC597.....	185
74AUP1T04.....	190	74AVC1T45-Q100.....	162	74HC1G125-Q100.....	155	74HC132.....	174	74HC597-Q100.....	149
74AUP1T08.....	173	74AVC1T1004.....	190	74HC1G126.....	166	74HC132.....	180	74HC688.....	189
74AUP1T08.....	190	74AVC1T1022.....	190	74HC1GU04.....	166	74HC132-Q100.....	147	74HC4002.....	176
74AUP1T08-Q100.....	162	74AVC1T8128.....	190	74HC1GU04-Q100.....	155	74HC137.....	187	74HC4017.....	186
74AUP1T14.....	166	74AVC1T8832.....	190	74HC02.....	176	74HC138.....	187	74HC4017-Q100.....	150
74AUP1T14.....	190	74AVC2T45.....	191	74HC2G00.....	174	74HC138-Q100.....	151	74HC4020.....	186
74AUP1T17.....	166	74AVC2T45-Q100.....	162	74HC2G00-Q100.....	157	74HC139.....	187	74HC4020-Q100.....	150
74AUP1T17.....	190	74AVC2T245.....	191	74HC2G02.....	176	74HC139-Q100.....	151	74HC4024.....	186
74AUP1T32.....	175	74AVC2T245-Q100.....	162	74HC2G02-Q100.....	157	74HC151.....	188	74HC4024-Q100.....	150
74AUP1T32.....	190	74AVC4T245.....	191	74HC2G04.....	166	74HC151-Q100.....	151	74HC4040.....	186
74AUP1T34.....	190	74AVC4T245-Q100.....	152	74HC2G04-Q100.....	156	74HC153.....	188	74HC4040-Q100.....	150
74AUP1T34-Q100.....	162	74AVC4T774.....	191	74HC2G08.....	173	74HC153-Q100.....	151	74HC4046A.....	189
74AUP1T45.....	190	74AVC4T774-Q100.....	152	74HC2G08-Q100.....	158	74HC154.....	187	74HC4051.....	193
74AUP1T50.....	166	74AVC4T3144.....	190	74HC2G14.....	166	74HC157.....	188	74HC4051-Q100.....	153
74AUP1T50.....	190	74AVC4T3144-Q100.....	152	74HC2G14.....	180	74HC157-Q100.....	151	74HC4052.....	193
74AUP1T57.....	178	74AVC4TD245.....	191	74HC2G14-Q100.....	159	74HC161.....	186	74HC4052-Q100.....	153
74AUP1T57.....	190	74AVC4TD245-Q100.....	152	74HC2G16.....	166	74HC161-Q100.....	150	74HC4053.....	193
74AUP1T58.....	178	74AVC8T245.....	191	74HC2G17.....	166	74HC164.....	185	74HC4053-Q100.....	153
74AUP1T58.....	190	74AVC8T245-Q100.....	152	74HC2G17.....	180	74HC164-Q100.....	149	74HC4060.....	186
74AUP1T86.....	177	74AVC16T245.....	191	74HC2G17-Q100.....	159	74HC165.....	185	74HC4060-Q100.....	150
74AUP1T86.....	190	74AVC16T245-Q100.....	152	74HC2G32.....	175	74HC165-Q100.....	149	74HC4066.....	193
74AUP1T87.....	177	74AVC20T245.....	191	74HC2G32-Q100.....	158	74HC166.....	185	74HC4066-Q100.....	153
74AUP1T87.....	190	74AVC9112.....	166	74HC2G34.....	166	74HC166-Q100.....	149	74HC4067.....	193
74AUP1T97.....	178	74AVCH1T45.....	191	74HC2G34-Q100.....	156	74HC173.....	182	74HC4067-Q100.....	153
74AUP1T97.....	190	74AVCH1T45-Q100.....	162	74HC2G66.....	193	74HC174.....	182	74HC4075.....	175
74AUP1T97-Q100.....	162	74AVCH2T45.....	191	74HC2G66-Q100.....	163	74HC174-Q100.....	147	74HC4094.....	185
74AUP1T98.....	178	74AVCH2T45-Q100.....	162	74HC2G86.....	177	74HC175.....	182	74HC4094-Q100.....	149
74AUP1T98.....	190	74AVCH4T245.....	191	74HC2G86-Q100.....	158	74HC175-Q100.....	148	74HC4316.....	193
74AUP1T98-Q100.....	162	74AVCH4T245-Q100.....	152	74HC2G125.....	166	74HC191.....	186	74HC4351.....	193
74AUP1Z04.....	178	74AVCH8T245.....	191	74HC2G125-Q100.....	156	74HC193.....	186	74HC4351-Q100.....	153
74AUP1Z04-Q100.....	157	74AVCH16T245.....	191	74HC2GU04.....	167	74HC193-Q100.....	150	74HC4511.....	187
74AUP1Z125.....	178	74AVCH20T245.....	191	74HC2GU04-Q100.....	155	74HC237.....	187	74HC4514.....	187
74AUP2G00.....	174	74AXP1G08.....	173	74HC02-Q100.....	146	74HC237-Q100.....	151	74HC4514-Q100.....	151
74AUP2G00-Q100.....	146	74AXP1G09.....	173	74HC03.....	174	74HC238.....	187	74HC4520.....	186
74AUP2G00-Q100.....	157	74AXP1G11.....	173	74HC3G04.....	167	74HC238-Q100.....	151	74HC4520-Q100.....	150
74AUP2G02.....	176	74AXP1T45.....	191	74HC3G04-Q100.....	156	74HC240.....	166	74HC4538.....	189
74AUP2G04.....	166	74AXP2T45.....	191	74HC3G06.....	167	74HC240-Q100.....	144	74HC4538-Q100.....	152
74AUP2G04-Q100.....	155	74AXP4T245.....	191	74HC3G07.....	167	74HC241.....	166	74HC4851.....	193
74AUP2G06.....	166	74AXP8T245.....	191	74HC3G07-Q100.....	156	74HC244.....	166	74HC4851-Q100.....	153
74AUP2G07.....	166	74CB3Q3253.....	194	74HC3G14.....	167	74HC244-Q100.....	144	74HC4852.....	193
74AUP2G08.....	173	74CB3Q3257.....	194	74HC3G14.....	180	74HC245.....	171	74HC4852-Q100.....	153
74AUP2G14.....	166	74CB3Q3257-Q100.....	154	74HC3G14-Q100.....	159	74HC245-Q100.....	145	74HC7014.....	167
74AUP2G14.....	179	74CBTLV1G125.....	194	74HC3G16.....	167	74HC251.....	188	74HC7014.....	180
74AUP2G16.....	166	74CBTLV1G125-Q100.....	163	74HC3G34.....	167	74HC251-Q100.....	151	74HC7014-Q100.....	147
74AUP2G17.....	166	74CBTLV3125.....	194	74HC3G34-Q100.....	156	74HC253.....	188	74HC7540.....	167
74AUP2G17.....	179	74CBTLV3125-Q100.....	154	74HC3GU04.....	167	74HC253-Q100.....	151	74HC7540.....	180
74AUP2G32.....	175	74CBTLV3126.....	194	74HC3GU04-Q100.....	155	74HC257.....	188	74HC7541.....	167
74AUP2G34.....	166	74CBTLV3126-Q100.....	154	74HC03-Q100.....	146	74HC257-Q100.....	151	74HC7541.....	180
74AUP2G38.....	174	74CBTLV3244.....	194	74HC04.....	166	74HC259.....	184	74HC7541-Q100.....	147
74AUP2G57.....	178	74CBTLV3244-Q100.....	154	74HC04-Q100.....	144	74HC259-Q100.....	148	74HC9114.....	167
74AUP2G57-Q100.....	157	74CBTLV3245.....	194	74HC05.....	166	74HC273.....	182	74HC9114.....	180
74AUP2G58.....	178	74CBTLV3245-Q100.....	154	74HC05-Q100.....	144	74HC273-Q100.....	148	74HC9115.....	167
74AUP2G58.....	179	74CBTLV3253.....	194	74HC08.....	173	74HC280.....	189	74HC9115.....	180
74AUP2G79.....	182	74CBTLV3253-Q100.....	154	74HC08-Q100.....	146	74HC299.....	185	74HC40103.....	186

Types in **bold red** are in development, types in **bold** represent new products

Type number	Page Number	Type number	Page Number	Type number	Page Number	Type number	Page Number	Type number	Page Number
74HCT00.....	174	74HCT123-Q100.....	152	74HCT4020.....	186	74LV32A.....	175	74LVC1G58-Q100.....	158
74HCT00-Q100.....	146	74HCT125.....	167	74HCT4020-Q100.....	150	74LV74.....	183	74LVC1G66.....	193
74HCT1G00.....	174	74HCT125-Q100.....	144	74HCT4040.....	186	74LV74-Q100.....	148	74LVC1G66-Q100.....	163
74HCT1G00-Q100.....	157	74HCT126.....	167	74HCT4040-Q100.....	150	74LV123.....	189	74LVC1G74.....	183
74HCT1G02.....	176	74HCT126-Q100.....	144	74HCT4046A.....	189	74LV132.....	174	74LVC1G74-Q100.....	160
74HCT1G02-Q100.....	157	74HCT132.....	174	74HCT4051.....	193	74LV132.....	180	74LVC1G79.....	183
74HCT1G04.....	167	74HCT132.....	180	74HCT4051-Q100.....	153	74LV132-Q100.....	147	74LVC1G79-Q100.....	160
74HCT1G04-Q100.....	155	74HCT132-Q100.....	147	74HCT4052.....	193	74LV138.....	187	74LVC1G80.....	183
74HCT1G08.....	173	74HCT138.....	187	74HCT4052-Q100.....	153	74LV164.....	185	74LVC1G80-Q100.....	160
74HCT1G08-Q100.....	157	74HCT138-Q100.....	151	74HCT4053.....	193	74LV164-Q100.....	149	74LVC1G86.....	177
74HCT1G14.....	167	74HCT139.....	187	74HCT4053-Q100.....	153	74LV165.....	185	74LVC1G86-Q100.....	158
74HCT1G14-Q100.....	180	74HCT139-Q100.....	151	74HCT4060.....	186	74LV165A.....	185	74LVC1G97.....	178
74HCT1G14-Q100.....	159	74HCT151.....	188	74HCT4060-Q100.....	150	74LV165A-Q100.....	149	74LVC1G97.....	180
74HCT1G32.....	175	74HCT151-Q100.....	151	74HCT4066.....	193	74LV165-Q100.....	149	74LVC1G97-Q100.....	158
74HCT1G32-Q100.....	157	74HCT153.....	188	74HCT4066-Q100.....	153	74LV244.....	168	74LVC1G98.....	178
74HCT1G66.....	193	74HCT153-Q100.....	151	74HCT4067.....	193	74LV244A.....	168	74LVC1G98.....	181
74HCT1G66-Q100.....	163	74HCT154.....	187	74HCT4067-Q100.....	153	74LV244AT.....	168	74LVC1G98-Q100.....	158
74HCT1G86.....	177	74HCT157.....	188	74HCT4075.....	175	74LV244-Q100.....	145	74LVC1G99.....	178
74HCT1G86-Q100.....	157	74HCT157-Q100.....	151	74HCT4094.....	185	74LV245.....	171	74LVC1G99.....	181
74HCT1G125.....	167	74HCT164.....	185	74HCT4094-Q100.....	149	74LV245A.....	171	74LVC1G123.....	189
74HCT1G125-Q100.....	155	74HCT164-Q100.....	149	74HCT4316.....	193	74LV245AT.....	171	74LVC1G123-Q100.....	161
74HCT1G126.....	167	74HCT165.....	185	74HCT4316-Q100.....	153	74LV393.....	186	74LVC1G125.....	169
74HCT02.....	176	74HCT165-Q100.....	149	74HCT4351.....	193	74LV393-Q100.....	150	74LVC1G125-Q100.....	156
74HCT2G00.....	174	74HCT166.....	185	74HCT4351-Q100.....	153	74LV540A.....	168	74LVC1G126.....	169
74HCT2G00-Q100.....	157	74HCT166-Q100.....	149	74HCT4511.....	187	74LV541A.....	168	74LVC1G126-Q100.....	156
74HCT2G02.....	176	74HCT173.....	183	74HCT4514.....	187	74LV541AT.....	168	74LVC1G157.....	188
74HCT2G02-Q100.....	158	74HCT174.....	183	74HCT4520.....	186	74LV595.....	185	74LVC1G157-Q100.....	161
74HCT2G04.....	167	74HCT174-Q100.....	148	74HCT4520-Q100.....	150	74LV4051.....	193	74LVC1G175.....	183
74HCT2G04-Q100.....	156	74HCT175.....	183	74HCT4538.....	189	74LV4051-Q100.....	153	74LVC1G175-Q100.....	160
74HCT2G08.....	173	74HCT175-Q100.....	148	74HCT4538-Q100.....	152	74LV4052.....	193	74LVC1G240.....	169
74HCT2G08-Q100.....	158	74HCT193.....	186	74HCT4851.....	193	74LV4052-Q100.....	153	74LVC1G240-Q100.....	156
74HCT2G14.....	167	74HCT193-Q100.....	150	74HCT4851-Q100.....	153	74LV4053.....	193	74LVC1G332.....	175
74HCT2G14-Q100.....	180	74HCT221.....	189	74HCT4852.....	193	74LV4053-Q100.....	153	74LVC1G332-Q100.....	158
74HCT2G16.....	167	74HCT238.....	187	74HCT4852-Q100.....	153	74LV4060.....	186	74LVC1G384.....	193
74HCT2G17.....	167	74HCT238-Q100.....	151	74HCT7540.....	168	74LV4060-Q100.....	150	74LVC1G384-Q100.....	163
74HCT2G17-Q100.....	159	74HCT240.....	167	74HCT7540-Q100.....	180	74LV4066.....	193	74LVC1G386.....	177
74HCT2G32.....	175	74HCT240-Q100.....	144	74HCT7541.....	168	74LV4094.....	185	74LVC1G3157.....	193
74HCT2G32-Q100.....	158	74HCT241.....	167	74HCT7541-Q100.....	180	74LV7032A.....	175	74LVC1G3157-Q100.....	163
74HCT2G34.....	167	74HCT244.....	167	74HCT7541-Q100.....	147	74LV7032A.....	180	74LVC1GU04.....	169
74HCT2G34-Q100.....	156	74HCT244-Q100.....	144	74HCT9114.....	168	74LV7032A-Q100.....	147	74LVC1GU04-Q100.....	156
74HCT2G66.....	193	74HCT245.....	171	74HCT9114-Q100.....	180	74LVC00A.....	174	74LVC1GX04.....	178
74HCT2G66-Q100.....	163	74HCT245-Q100.....	145	74HCU04.....	168	74LVC1G00.....	175	74LVC1GX04-Q100.....	158
74HCT2G86.....	177	74HCT251.....	188	74HCU04-Q100.....	145	74LVC1G00-Q100.....	158	74LVC1T45.....	191
74HCT2G86-Q100.....	158	74HCT251-Q100.....	151	74LV00.....	174	74LVC1G02.....	176	74LVC1T45-Q100.....	162
74HCT2G125.....	167	74HCT253.....	188	74LV00A.....	174	74LVC1G02-Q100.....	158	74LVC2A.....	176
74HCT2G125-Q100.....	156	74HCT253-Q100.....	151	74LV1T00.....	174	74LVC1G04.....	168	74LVC2G00.....	175
74HCT02-Q100.....	146	74HCT257.....	188	74LV1T00-Q100.....	190	74LVC1G04-Q100.....	156	74LVC2G00-Q100.....	158
74HCT03.....	174	74HCT257-Q100.....	151	74LV1T02.....	176	74LVC1G06.....	168	74LVC2G02.....	176
74HCT3G04.....	167	74HCT259.....	184	74LV1T02-Q100.....	190	74LVC1G06-Q100.....	156	74LVC2G02-Q100.....	158
74HCT3G04-Q100.....	156	74HCT259-Q100.....	148	74LV1T04.....	168	74LVC1G07.....	168	74LVC2G04.....	169
74HCT3G06.....	168	74HCT273.....	183	74LV1T04-Q100.....	190	74LVC1G07-Q100.....	156	74LVC2G04-Q100.....	156
74HCT3G07.....	168	74HCT273-Q100.....	148	74LV1T04-Q100.....	162	74LVC1G08.....	173	74LVC2G06.....	169
74HCT3G07-Q100.....	156	74HCT280.....	189	74LV1T08.....	173	74LVC1G08-Q100.....	158	74LVC2G06-Q100.....	156
74HCT3G14.....	168	74HCT365.....	167	74LV1T08-Q100.....	190	74LVC1G10.....	175	74LVC2G07.....	169
74HCT3G14-Q100.....	180	74HCT365-Q100.....	144	74LV1T08.....	173	74LVC1G10-Q100.....	158	74LVC2G07-Q100.....	156
74HCT3G34.....	168	74HCT366.....	167	74LV1T32.....	175	74LVC1G11.....	173	74LVC2G08.....	173
74HCT3G34-Q100.....	156	74HCT366-Q100.....	144	74LV1T32-Q100.....	190	74LVC1G11-Q100.....	158	74LVC2G08-Q100.....	158
74HCT03-Q100.....	146	74HCT373.....	184	74LV1T34.....	168	74LVC1G14.....	169	74LVC2G14.....	169
74HCT04.....	167	74HCT373-Q100.....	148	74LV1T34-Q100.....	190	74LVC1G14-Q100.....	180	74LVC2G14-Q100.....	181
74HCT04-Q100.....	144	74HCT374.....	183	74LV1T86.....	177	74LVC1G16.....	159	74LVC2G16.....	159
74HCT08.....	173	74HCT377.....	183	74LV1T86-Q100.....	190	74LVC1G16-Q100.....	156	74LVC2G17.....	169
74HCT08-Q100.....	146	74HCT377-Q100.....	148	74LV1T87.....	177	74LVC1G17.....	169	74LVC2G17-Q100.....	181
74HCT10.....	174	74HCT390.....	186	74LV1T87-Q100.....	190	74LVC1G17-Q100.....	159	74LVC2G17-Q100.....	159
74HCT10-Q100.....	146	74HCT393.....	186	74LV1T87.....	190	74LVC1G18.....	187	74LVC2G32.....	175
74HCT11.....	173	74HCT393-Q100.....	150	74LV1T125.....	168	74LVC1G18-Q100.....	161	74LVC2G32-Q100.....	158
74HCT14.....	167	74HCT540.....	168	74LV1T125-Q100.....	162	74LVC1G19.....	187	74LVC2G34.....	169
74HCT14-Q100.....	147	74HCT540-Q100.....	144	74LV1T126.....	168	74LVC1G19-Q100.....	161	74LVC2G34-Q100.....	156
74HCT174.....	183	74HCT541.....	168	74LV1T126-Q100.....	190	74LVC1G27.....	176	74LVC2G38.....	175
74HCT174-Q100.....	147	74HCT541-Q100.....	145	74LV02A.....	176	74LVC1G27-Q100.....	158	74LVC2G53.....	193
74HCT85.....	189	74HCT573.....	184	74LV03.....	174	74LVC1G27-Q100.....	158	74LVC2G66.....	193
74HCT85-Q100.....	177	74HCT573-Q100.....	148	74LV04.....	168	74LVC1G32.....	175	74LVC2G66-Q100.....	163
74HCT86.....	177	74HCT574.....	183	74LV04AT.....	168	74LVC1G32-Q100.....	158	74LVC2G74.....	183
74HCT107.....	183	74HCT574-Q100.....	148	74LV05A.....	168	74LVC1G34.....	169	74LVC2G74-Q100.....	160
74HCT107-Q100.....	147	74HCT594.....	185	74LV05A-Q100.....	168	74LVC1G34-Q100.....	156	74LVC2G86.....	177
74HCT109.....	183	74HCT594-Q100.....	149	74LV07A.....	168	74LVC1G38.....	175	74LVC2G86-Q100.....	158
74HCT109-Q100.....	147	74HCT595.....	185	74LV07AT.....	168	74LVC1G38-Q100.....	158	74LVC2G125.....	169
74HCT112.....	183	74HCT595-Q100.....	149	74LV08.....	173	74LVC1G53.....	193	74LVC2G125-Q100.....	156
74HCT123.....	189	74HCT597.....	185	74LV08A.....	173	74LVC1G53-Q100.....	163	74LVC2G126.....	169
		74HCT597-Q100.....	149	74LV14.....	168	74LVC1G57.....	178	74LVC2G126-Q100.....	156
		74HCT599-Q100.....	189	74LV14A.....	180	74LVC1G57-Q100.....	180	74LVC2G240.....	169
		74HCT4017.....	186	74LV14A-Q100.....	180	74LVC1G58.....	178	74LVC2G240-Q100.....	156
		74HCT4017-Q100.....	150	74LV17A.....	168	74LVC1G58.....	180	74LVC2G241.....	169
								74LVC2G241-Q100.....	156

Types in **bold red** are in development, types in **bold** represent new products

Type number	Page Number	Type number	Page Number	Type number	Page Number	Type number	Page Number	Type number	Page Number
74LVC2G3157	193	74LVC16240A	168	74VHC08	173	BAS70-05 (-Q)	63	BAV23C (-Q)	57
74LVC2G3157-Q100	163	74LVC16240A-Q100	145	74VHC14	170	BAS70-05W (-Q)	63	BAV23 (-Q)	57
74LVC2GU04	169	74LVC16241A	168	74VHC14	181	BAS70-06 (-Q)	63	BAV23QA (-Q)	57
74LVC2GU04-Q100	156	74LVC16244A	168	74VHC32	175	BAS70-06W (-Q)	63	BAV23S (-Q)	57
74LVC2T45	191	74LVC16244A-Q100	145	74VHC125	170	BAS70-07 (-Q)	63	BAV70M (-Q)	56
74LVC2T45-Q100	162	74LVC16245A	171	74VHC126	170	BAS70-07S (-Q)	63	BAV70 (-Q)	56
74LVC3G04	169	74LVC16245A-Q100	145	74VHC126-Q100	145	BAS70H (-Q)	63	BAV70QA (-Q)	56
74LVC3G04-Q100	156	74LVC16373A	184	74VHC244	170	BAS70L (-Q)	63	BAV70QB (-Q)	56
74LVC3G06	169	74LVC16373A-Q100	148	74VHC245	172	BAS70LS (-Q)	63	BAV70S (-Q)	56
74LVC3G07	169	74LVC16374A	183	74VHC541	170	BAS70 (-Q)	63	BAV70SRA (-Q)	56
74LVC3G07-Q100	156	74LVC16374A-Q100	148	74VHC541-Q100	145	BAS70VY (-Q)	63	BAV70W (-Q)	56
74LVC3G14	169	74LVC162244A	168	74VHC595	185	BAS70W (-Q)	63	BAV74 (-Q)	55
74LVC3G14	181	74LVC162245A	171	74VHC595-Q100	149	BAS70XY (-Q)	63	BAV99 (-Q)	56
74LVC3G16	169	74LVC162245A-Q100	145	74VHCT02	176	BAS85	63	BAV99QA (-Q)	56
74LVC3G17	169	74LVC162373A	184	74VHCT08	173	BAS101 (-Q)	57	BAV99QB (-Q)	56
74LVC3G17	181	74LVCH1T45	191	74VHCT14	170	BAS101S (-Q)	57	BAV99QC (-Q)	56
74LVC3G17-Q100	159	74LVCH1T45-Q100	162	74VHCT14	181	BAS- 116GW (-Q)	58	BAV99S	56
74LVC3G34	169	74LVCH2T45	191	74VHCT32	175	BAS116H (-Q)	58	BAV99W (-Q)	56
74LVC3G34-Q100	156	74LVCH2T45-Q100	162	74VHCT125	170	BAS116L (-Q)	58	BAV102	57
74LVC3GU04	169	74LVCH8T245	191	74VHCT126	170	BAS116LS (-Q)	58	BAV103	57
74LVC3GU04-Q100	156	74LVCH8T245-Q100	152	74VHCT126-Q100	145	BAS116 (-Q)	58	BAV170M (-Q)	58
74LVC04A	168	74LVCH244A	169	74VHCT244	170	BAS116QA (-Q)	58	BAV170 (-Q)	58
74LVC04A-Q100	145	74LVCH244A-Q100	145	74VHCT245	172	BAS316 (-Q)	56	BAV170QA (-Q)	58
74LVC4T3144	190	74LVCH245A	171	74VHCT541	170	BAS321J (-Q)	57	BAV199 (-Q)	58
74LVC4T3144-Q100	152	74LVCH245A-Q100	145	74VHCT541-Q100	145	BAS321 (-Q)	57	BAV199QC (-Q)	58
74LVC06A	168	74LVCH1T45	169	74VHCT595	185	BAS416 (-Q)	58	BAV199W (-Q)	58
74LVC06A-Q100	145	74LVCH16244A-Q100	145	74VHCT595-Q100	149	BAS516 (-Q)	56	BAV756S (-Q)	55
74LVC07A	168	74LVCH16245A	171	AXP1T34	191	BAS521B (-Q)	57	BAW56M (-Q)	55
74LVC07A-Q100	145	74LVCH16245A-Q100	145	BAL74 (-Q)	55	BAS521 (-Q)	57	BAW56 (-Q)	55
74LVC08A	173	74LVCH16373A	184	BAL99 (-Q)	55	BAS716 (-Q)	58	BAW56QA (-Q)	55
74LVC8T245	191	74LVCH16373A-Q100	148	BAS16GW (-Q)	56	BAT17	63	BAW56QB (-Q)	55
74LVC8T245-Q100	152	74LVCH16374A	183	BAS16H (-Q)	56	BAT32ALS (-Q)	63	BAW56S (-Q)	55
74LVC8T595	185	74LVCH16374A-Q100	148	BAS16J (-Q)	56	BAT32LS (-Q)	63	BAW56SRA	55
74LVC8T595	190	74LVCH16541A	169	BAS16LD (-Q)	56	BAT42LS (-Q)	63	BAW56W (-Q)	55
74LVC10A	174	74LVCH162244A	169	BAS16L (-Q)	56	BAT46GW (-Q)	63	BAW101 (-Q)	57
74LVC11	173	74LVCH162245A	171	BAS16LS	56	BAT46LS (-Q)	63	BAW101S (-Q)	57
74LVC14A	168	74LVCH162373A	184	BAS16LS (-Q)	56	BAT46WH (-Q)	63	BAW156 (-Q)	58
74LVC14A	180	74LVCH162374A	183	BAS16 (-Q)	56	BAT46WJ (-Q)	63	BC51PA (-Q)/ BC51-10PA /	
74LVC14A-Q100	147	74LVCU04A	169	BAS16QA (-Q)	56	BAT54A (-Q)	63	BC5116PA	26
74LVC32A	175	74LVCU04A-Q100	145	BAS16TH (-Q)	58	BAT54AW (-Q)	63	BC51PAS (-Q) / BC51-10PAS (-Q)	
74LVC74A	183	74LVCV2G66	193	BAS16VY (-Q)	56	BAT54CM (-Q)	63	/ BC51-16PAS (-Q)	26
74LVC74A-Q100	148	74LVT02	176	BAS16W (-Q)	56	BAT54C (-Q)	63	BC52PA (-Q) / BC52-10PA (-Q) /	
74LVC86A	177	74LVT04	169	BAS19 (-Q)	57	BAT54CW (-Q)	63	BC52-16PA (-Q)	26
74LVC125A	168	74LVT04-Q100	145	BAS20 (-Q)	57	BAT54CY (-Q)	63	BC52PAS (-Q) / BC52-10PAS (-Q)	
74LVC125A-Q100	145	74LVT08	173	BAS21AW (-Q)	57	BAT54GW	63	/ BC52-16PAS (-Q)	26
74LVC126A	168	74LVT14	169	BAS21GW (-Q)	57	BAT54HGW (-Q)	63	BC53PA (-Q)/ BC53-10PA(-Q) /	
74LVC126A-Q100	145	74LVT14	181	BAS21H (-Q)	57	BAT54H (-Q)	63	BC53-16PA (-Q)	26
74LVC132A	174	74LVT125	169	BAS21J (-Q)	57	BAT54J (-Q)	63	BC53PAS (-Q) / BC53-10PAS (-Q) /	
74LVC132A	180	74LVT126	169	BAS21LL(-Q)	57	BAT54L (-Q)	63	BC53-16PAS (-Q)	26
74LVC132A-Q100	147	74LVT240	170	BAS21LS (-Q)	57	BAT54LS (-Q)	63	BC53PAST (-Q) / BC53-10PAST	
74LVC138A	187	74LVT241	170	BAS21PC (-Q)	57	BAT54 (-Q)	63	(-Q) / BC53-16PAST (-Q)	26
74LVC138A-Q100	151	74LVT244A	170	BAS21 (-Q)	57	BAT54QB (-Q)	63	BC54PA (-Q) / BC54-10PA (-Q) /	
74LVC139	187	74LVT244A-Q100	145	BAS21QB (-Q)	57	BAT54QC (-Q)	63	BC54-16PA (-Q)	26
74LVC157A	188	74LVT244B	170	BAS21QC (-Q)	57	BAT54S (-Q)	63	BC54PAS (-Q) / BC54-10PAS (-Q) /	
74LVC157A-Q100	151	74LVT245	172	BAS21SW (-Q)	57	BAT54SW (-Q)	63	BC54-16PAS (-Q)	26
74LVC161	186	74LVT245B	172	BAS21TH (-Q)	58	BAT54VY (-Q)	63	BC55PA (-Q) / BC55-10PA (-Q) /	
74LVC163	186	74LVT573	184	BAS21VD (-Q)	57	BAT54W (-Q)	63	BC55-16PA (-Q)	26
74LVC240A	169	74LVT640	172	BAS21W (-Q)	57	BAT54XY (-Q)	63	BC55PAS (-Q) / BC55-10PAS (-Q) /	
74LVC244A	169	74LVT2241	170	BAS28	55	BAT74	63	BC55-16PAS (-Q)	
74LVC244A-Q100	145	74LVT2244	170	BAS29	58	BAT74S (-Q)	63	/ BC56-16PAST (-Q)	26
74LVC245A	171	74LVT2245	172	BAS30LS (-Q)	57	BAT85	63	BC56PA (-Q) / BC56-10PA (-Q) /	
74LVC245A-Q100	145	74LVT245A	170	BAS31	58	BAT120A (-Q)	69	BC56-16PA (-Q)	26
74LVC257A	188	74LVT16244B	170	BAS32L	55	BAT120C (-Q)	69	BC56PAS(-Q) / BC56-10PAS (-Q)/	
74LVC273	183	74LVT16245B	171	BAS35	58	BAT120S (-Q)	69	BC56-16PAS(-Q)	26
74LVC273-Q100	148	74LVT16373A	184	BAS40-04(-Q)	63	BAT160A (-Q)	69	BC56PAST(-Q) /	
74LVC373A	184	74LVT16374A	183	BAS40-04W(-Q)	63	BAT160C (-Q)	69	BC56-10PAST (-Q)	26
74LVC373A-Q100	148	74LVT16543A	171	BAS40-05(-Q)	63	BAT160S (-Q)	69	BC68PA (-Q)/ BC68-25PA (-Q)	26
74LVC374A	183	74LVT16543A	172	BAS40-05W(-Q)	63	BAT720 (-Q)	63	BC68PAS (-Q) / BC68-25PAS (-Q)	26
74LVC374A-Q100	148	74LVT162240A	170	BAS40-06(-Q)	63	BAT720 (-Q)	68	BC69PA (-Q) / BC69-16PA (-Q) /	
74LVC377	183	74LVT162244B	170	BAS40-06W(-Q)	63	BAT721A (-Q)	63	BC69-25PA (-Q)	26
74LVC541A	169	74LVT162245B	171	BAS40-07(-Q)	63	BAT721C (-Q)	63	BC69PAS (-Q) / BC569-16PAS (-Q)	
74LVC541A-Q100	145	74LVT162373	184	BAS40DY(-Q)	63	BAT721 (-Q)	63	/ BC69-25PAS (-Q)	26
74LVC573A	184	74LVT162374	183	BAS40H(-Q)	63	BAT721S (-Q)	63	BC806-16H (-Q)	26
74LVC573A-Q100	148	74LVTH125	170	BAS40L(-Q)	63	BAT754A (-Q)	63	BC806-16 (-Q)	23
74LVC574A	183	74LVTH244A	170	BAS40LS (-Q)	63	BAT754C (-Q)	63	BC806-16W (-Q)	23
74LVC594A	185	74LVTH244A-Q100	145	BAS40(-Q)	63	BAT754L	63	BC806-25H (-Q)	26
74LVC594A-Q100	149	74LVTH244B	170	BAS40VY (-Q)	63	BAT754 (-Q)	63	BC806-25 (-Q)	23
74LVC595A	185	74LVTH2245	172	BAS40W(-Q)	63	BAT754S (-Q)	63	BC806-25W (-Q)	23
74LVC2244A	169	74LVTH16244B	170	BAS40XY(-Q)	63	BAT854AW (-Q)	63	BC807-16H (-Q)	26
74LVC2245A	171	74LVTH16245B	172	BAS45A	58	BAT854CW (-Q)	63	BC807-16 (-Q)	23
74LVC4066	193	74LVTH16374A	183	BAS45AL	58	BAT854SW (-Q)	63	BC807-16QB (-Q)	23
74LVC4066-Q100	153	74LVTN16244B	170	BAS56	58	BAT854W (-Q)	63	BC807-16QC (-Q)	23
74LVC4245A	191	74LVTN16245B	172	BAS70-04 (-Q)	63	BAV21QA (-Q)	57	BC807-16W (-Q)	23
74LVC4245A-Q100	152	74VHC02	176	BAS70-04W (-Q)	63	BAV23A (-Q)	57	BC807-25H (-Q)	26

Types in **bold red** are in development, types in **bold** represent new products

Type number	Page Number	Type number	Page Number	Type number	Page Number	Type number	Page Number	Type number	Page Number
BC807-25 (-Q).....	23	BC847 (-Q).....	22	BCP53 / -10 / -16.....	26	BF820(-Q).....	27	BUK6Y14-40P.....	105
BC807-25QB (-Q).....	23	BC847QAPN.....	24	BCP53-10H (-Q).....	26	BF820W (-Q).....	27	BUK6Y19-30P.....	105
BC807-25QC (-Q).....	23	BC847QAS.....	24	BCP53-16H (-Q).....	26	BF821 (-Q).....	27	BUK6Y24-40P.....	105
BC807-25W (-Q).....	23	BC847RA.....	24	BCP53H (-Q).....	26	BF822(-Q).....	27	BUK6Y33-60P.....	105
BC807-40H (-Q).....	26	BC847RAPN.....	24	BCP53T / -10T / -16T.....	26	BF823 (-Q).....	27	BUK6Y61-60P.....	105
BC807-40 (-Q).....	23	BC847W (-Q).....	22	BCP54 (-Q) / -10 (-Q) / -16 (-Q).....	26	BF824.....	31	BUK7A1R0-100L	104
BC807-40QB (-Q).....	23	BC848B (-Q).....	22	BCP54T (-Q) / -10T (-Q) / -16T (-Q).....	26	BF824W.....	31	BUK7A1R3-100L	104
BC807-40QC (-Q).....	23	BC848W (-Q).....	22	BCP55 (-Q) / -10 (-Q) / -16 (-Q).....	26	BF840.....	31	BUK7D25-40E.....	107
BC807-40W (-Q).....	23	BC849B.....	29	BCP55T (-Q) / -10T (-Q) / -16T (-Q).....	26	BFS19.....	31	BUK7D36-60E.....	107
BC807DS (-Q).....	24	BC849BW.....	29	BCP56-10H (-Q).....	26	BFS20.....	31	BUK7J1R0-40H.....	99
BC807K-16.....	24	BC849C.....	29	BCP56-16H (-Q).....	26	BFS20W.....	31	BUK7J1R4-40H.....	99
BC807K-25.....	24	BC849CW.....	29	BCP56H (-Q).....	26	BS21AVD (-Q)	57	BUK7J2R4-80M	103
BC807K-40.....	24	BC850B.....	29	BCP56 (-Q) / -10 (-Q) / BCP56T(-Q) / -10T (-Q) / -16T (-Q).....	26	BSH103BK.....	123	BUK7K3R5-40N	100
BC807 (-Q).....	23	BC850BW.....	29	BCP58 (-Q) / -25 (-Q).....	26	BSH11BK.....	123	BUK7K5R1-30E.....	98
BC807RA.....	24	BC850C.....	29	BCP69 / -16 / -25 (-Q).....	26	BSH205G2.....	107	BUK7K5R6-30E.....	98
BC807W (-Q).....	23	BC850CW.....	29	BCV27 (-Q).....	29	BSH205G2.....	125	BUK7K6R2-40E.....	100
BC816-16H (-Q).....	26	BC856A (-Q).....	23	BCV28.....	29	BSH205G2A.....	107	BUK7K6R8-40E.....	100
BC816-16 (-Q).....	22	BC856AQB (-Q).....	23	BCV29.....	29	BSN20BK.....	123	BUK7K8R7-40E.....	100
BC816-16W (-Q).....	22	BC856AQC (-Q).....	23	BCV46 (-Q).....	29	BSP19 (-Q).....	27	BUK7K12-60E.....	101
BC816-25H (-Q).....	26	BC856AW (-Q).....	23	BCV47 (-Q).....	29	BSP31 (-Q).....	26	BUK7K13-60E.....	101
BC816-25 (-Q).....	22	BC856BM (-Q).....	23	BCV48 (-Q).....	29	BSP32 / 33.....	26	BUK7K15-80E.....	103
BC816-25W (-Q).....	22	BC856B (-Q).....	23	BCV49 (-Q).....	29	BSP41 (-Q).....	26	BUK7K17-60E.....	101
BC817-16 (-Q).....	22	BC856BQB (-Q).....	23	BCV61A/B/C.....	30	BSP43 (-Q).....	26	BUK7K17-80E.....	103
BC817-16QB (-Q).....	22	BC856BQC (-Q).....	23	BCV62A/B/C.....	30	BSP50 (-Q).....	29	BUK7K18-40E.....	100
BC817-16QC (-Q).....	22	BC856BSH-Q	26	BCV63 / B.....	29	BSP51 (-Q).....	29	BUK7K23-80E.....	103
BC817-40QB (-Q).....	22	BC856B5 (-Q).....	24	BCV64B.....	29	BSP52 (-Q).....	29	BUK7K25-40E.....	100
BC817-25 (-Q).....	22	BC856BW.....	23	BCV65.....	31	BSP60 (-Q).....	29	BUK7K29-100E.....	104
BC817-25QB (-Q).....	22	BC856S (-Q).....	24	BCV71 (-Q).....	22	BSP61 (-Q).....	29	BUK7K32-100E.....	104
BC817-25QC (-Q).....	22	BC857AM (-Q).....	23	BCV72 (-Q).....	22	BSP62 (-Q).....	29	BUK7K35-60E.....	101
BC817-25W (-Q).....	22	BC857A (-Q).....	23	BCW29.....	23	BSR14 (-Q).....	25	BUK7K45-100E.....	104
BC817-40 (-Q).....	22	BC857AQB (-Q).....	23	BCW30.....	23	BSR16 (-Q).....	25	BUK7K52-60E.....	101
BC817-40QC (-Q).....	22	BC857AQC (-Q).....	23	BCW31.....	22	BSR30 (-Q) / 31 (-Q).....	26	BUK7K89-100E.....	104
BC817-40W (-Q).....	22	BC857AW (-Q).....	23	BCW32.....	22	BSR33 (-Q).....	26	BUK7K134-100E.....	104
BC8177DPN (-Q).....	24	BC857BM (-Q).....	23	BCW33.....	22	BSR41(-Q).....	26	BUK7M3R3-40H.....	100
BC817DS (-Q).....	24	BC857B (-Q).....	23	BCW60B.....	22	BSR43 (-Q).....	26	BUK7M4R3-40H.....	100
BC817K-16.....	24	BC857BQB (-Q).....	23	BCW60C.....	22	BSS63 (-Q).....	23	BUK7M5R0-40H.....	100
BC817K-16H (-Q).....	26	BC857BQC (-Q).....	23	BCW60D.....	22	BSS84AK.....	108	BUK7M6R0-40H.....	100
BC817K-25.....	24	BC857BSH-Q	26	BCW61B.....	23	BSS84AK.....	125	BUK7M6R3-40E.....	100
BC817K-25H (-Q).....	26	BC857B5 (-Q).....	24	BCW61C.....	23	BSS84AKB.....	118	BUK7M6R7-40H.....	100
BC817K-40.....	24	BC857BW (-Q).....	23	BCW61D.....	23	BSS84AKMB.....	118	BUK7M8R0-40E.....	100
BC817K-40H (-Q).....	26	BC857CM (-Q).....	23	BCW66F.....	22	BSS84AKQB.....	108	BUK7M8R5-40H.....	100
BC817 (-Q).....	22	BC857C (-Q).....	23	BCW66G.....	22	BSS84AKS.....	108	BUK7M9R5-40H.....	100
BC817RA.....	24	BC857CQB (-Q).....	23	BCW66H.....	22	BSS84AKS.....	126	BUK7M9R9-60E.....	102
BC817RAPN.....	24	BC857CQC (-Q).....	23	BCW68F.....	23	BSS84AKW.....	108	BUK7M10-40E.....	100
BC817W (-Q).....	22	BC857CW (-Q).....	23	BCW68G.....	23	BSS84AKW.....	125	BUK7M11-40H.....	100
BC846A (-Q).....	22	BC857QAS.....	24	BCW68H.....	23	BSS84AKW.....	108	BUK7M12-40E.....	100
BC846AQB (-Q).....	22	BC857RA.....	24	BCW69.....	23	BSS138AK-Q.....	108	BUK7M12-60E.....	102
BC846AQC (-Q).....	22	BC857W (-Q).....	23	BCW70.....	23	BSS138AKQB-Q.....	108	BUK7M15-40H.....	100
BC846AW (-Q).....	22	BC858B (-Q).....	23	BCW71.....	22	BSS138AKS-Q.....	108	BUK7M15-60E.....	102
BC846BM (-Q).....	22	BC858BW (-Q).....	23	BCW72.....	22	BSS138AKW-Q.....	108	BUK7M17-80E.....	103
BC846BPNH-Q	26	BC859B.....	29	BCW89.....	23	BSS138BK.....	108	BUK7M19-60E.....	102
BC846BPN (-Q).....	24	BC859BW.....	29	BCX17 (-Q).....	23	BSS138BKS.....	108	BUK7M20-40H.....	100
BC846B (-Q).....	22	BC859C.....	29	BCX18.....	23	BSS138BKW.....	108	BUK7M21-40E.....	100
BC846BQB (-Q).....	22	BC859CW.....	29	BCX19 (-Q).....	22	BSS138P.....	108	BUK7M22-80E.....	103
BC846BQC (-Q).....	22	BC860B.....	29	BCX51 / -10 / -16.....	26	BSS138PS.....	108	BUK7M27-80E.....	103
BC846BSH-Q	26	BC860BW.....	29	BCX51T / -10T / -16T.....	26	BSS138PW.....	108	BUK7M27-80E.....	103
BC846BS (-Q).....	24	BC860C.....	29	BCX52 / -10 / -16.....	26	BST39 (-Q).....	27	BUK7M33-60E.....	102
BC846BW (-Q).....	22	BC860CW.....	29	BCX52T / -10T / -16T.....	26	BST50 (-Q).....	29	BUK7M42-60E.....	102
BC846DS (-Q).....	24	BC868 (-Q) / -25 (-Q).....	26	BCX53 / -10 / -16.....	26	BST51 (-Q).....	29	BUK7M45-40E.....	100
BC846 (-Q).....	22	BC869 / -16 (-Q) / -25.....	26	BCX53T / -10T / -16T.....	26	BST52 (-Q).....	29	BUK7M46-60E.....	102
BC846W (-Q).....	22	BCM53DS.....	30	BCX54 (-Q) / -10 (-Q) / -16 (-Q).....	26	BST60 (-Q).....	29	BUK7M47-60E.....	102
BC847AM (-Q).....	22	BCM56DS.....	30	BCX54T / -10T / -16T.....	26	BST61 (-Q).....	29	BUK7M48-40E.....	100
BC847A (-Q).....	22	BCM61B.....	30	BCX55 (-Q) / -10 (-Q) / -16 (-Q).....	26	BST62 (-Q).....	29	BUK7M49-40H.....	99
BC847AQB (-Q).....	22	BCM62B.....	30	BCX55T / -10T / -16T.....	26	BUK4D16-20.....	107	BUK7M50-40H.....	99
BC847AQC (-Q).....	22	BCM846BS.....	30	BCX56 / -10 / -16.....	26	BUK4D38-20P.....	107	BUK7M51-40H.....	99
BC847AW (-Q).....	22	BCM846BSH-Q	26	BCX56T / -10T / -16T.....	26	BUK4D60-30.....	107	BUK7M52R0-40H.....	99
BC847BM (-Q).....	22	BCM847BS.....	30	BCX70G.....	22	BUK4D110-20P.....	107	BUK7T1R0-100L	104
BC847BPNH-Q	26	BCM847BSH-Q	26	BCX70H.....	22	BUK6D22-30E.....	107	BUK7T1R4-100L	104
BC847BPN (-Q).....	24	BCM847DS.....	30	BCX70J.....	22	BUK6D23-40E.....	107	BUK7V4R2-40H.....	100
BC847B (-Q).....	22	BCM847QAS.....	30	BCX70K.....	22	BUK6D30-40E.....	107	BUK7Y1R0-40N	99
BC847BQB (-Q).....	22	BCM856BS.....	30	BCX71H (-Q).....	23	BUK6D38-30E.....	107	BUK7Y1R4-40H.....	99
BC847BQC (-Q).....	22	BCM856BSH-Q	26	BCX71J (-Q).....	23	BUK6D43-40P.....	107	BUK7Y1R7-40H.....	99
BC847BSH-Q	26	BCM856DS.....	30	BCX71K (-Q).....	23	BUK6D43-60E.....	107	BUK7Y2R0-40H.....	99
BC847BS (-Q).....	24	BCM857DS.....	30	BF550.....	31	BUK6D56-60E.....	107	BUK7Y2R5-40H.....	99
BC847BW (-Q).....	22	BCM857QAS.....	30	BF570.....	31	BUK6D72-30E.....	107	BUK7Y3R0-40H.....	99
BC847C (-Q).....	22	BCP51 / -10 / -16.....	26	BF620 (-Q).....	27	BUK6D77-60E.....	107	BUK7Y3R1-80M	103
BC847CQB (-Q).....	22	BCP51T (-Q) / -10T (-Q) / -16T (-Q).....	26	BF621 (-Q).....	27	BUK6D81-80E.....	107	BUK7Y3R5-40E.....	99
BC847CW (-Q).....	22	BCP52 / -10 / -16.....	26	BF622 (-Q).....	27	BUK6D120-40E.....	107	BUK7Y3R5-40H.....	99
BC847DS (-Q).....	24	BCP52T (-Q) / -10T (-Q) / -16T (-Q).....	26	BF623 (-Q).....	27	BUK6D120-60P.....	107	BUK7Y4R4-40E.....	99
				BF720 (-Q).....	27	BUK6D125-60E.....	107	BUK7Y4R8-60E.....	101
				BF722 (-Q).....	27	BUK6D210-60E.....	107	BUK7Y6R0-60E.....	99
				BF723 (-Q).....	27	BUK6D230-80E.....	107	BUK7Y7R0-40H.....	101
						BUK6D335-100E.....	107	BUK7Y7R2-60E.....	101
						BUK6Y10-30P.....	105	BUK7Y7R8-80E.....	103

Types in **bold red** are in development, types in **bold** represent new products

Type number	Page Number	Type number	Page Number	Type number	Page Number	Type number	Page Number	Type number	Page Number
BUK7Y8R7-60E.....	101	BUK9M42-60E.....	102	BXK9R4R5-40H	100	GANE7R0-100CBA	137	HEF40244B.....	170
BUK7Y9R9-80E.....	103	BUK9M43-100E.....	105	BZA408B.....	86	GANE140-700BBA	137	HPZR-Q series.....	51
BUK7Y12-40E.....	99	BUK9M48-80L	103	BZA420A.....	86	GANE190-700BBA	137	HPZR-Q series	53
BUK7Y12-100E.....	104	BUK9M52-40E.....	100	BZA456A.....	86	GANE240-700BBA	137	HPZR-Q series	53
BUK7Y14-80E.....	103	BUK9M53-60E.....	102	BZA856A.....	86	GANE350-650FBA	137	HPZR series.....	51
BUK7Y15-60E.....	101	BUK9M60-100L	105	BZB84-Q series.....	50	GANE350-700BBA	137	HPZR series	53
BUK7Y19-100E.....	104	BUK9M67-60E.....	102	BZB84 series.....	50	GANE600-650FBA	137	HPZR series	53
BUK7Y21-40E.....	99	BUK9M85-60E.....	102	BZB100A.....	50	HEF4001B.....	176	IP3319CX6.....	87
BUK7Y22-100E.....	104	BUK9M120-100E.....	105	BZB784 series.....	51	HEF4007UB.....	178	IP3319CX6.....	210
BUK7Y25-60E.....	101	BUK9M156-100E.....	105	BZT52H-A (-Q) series.....	51	HEF4011B.....	175	IP4220CZ6.....	82
BUK7Y25-80E.....	103	BUK9M13-40H.....	100	BZT52H-Q series.....	50	HEF4013B.....	183	IP4283CZ10-TBR.....	82
BUK7Y29-40E.....	99	BUK9Y1R3-40H.....	99	BZT52H series.....	50	HEF4013B-Q100.....	148	IP4369CX4.....	210
BUK7Y38-100E.....	104	BUK9Y1R6-40H.....	99	BZT52-Q series.....	50	HEF4014B.....	185	LSF0101.....	192
BUK7Y41-80E.....	103	BUK9Y1R9-40H.....	99	BZT52 series.....	50	HEF4014B-Q100.....	149	LSF0101-Q100.....	162
BUK7Y43-60E.....	101	BUK9Y2R4-40H.....	99	BZT5250H-Q series.....	50	HEF4015B.....	185	LSF0102.....	192
BUK7Y59-60E.....	101	BUK9Y2R8-40H.....	99	BZT5250H-Q series BZT5250H.....	53	HEF4016B.....	193	LSF0102-Q100.....	162
BUK7Y62-40E.....	104	BUK9Y13-40H.....	99	BZV49 series.....	51	HEF4017B.....	186	LSF0108.....	192
BUK7Y72-80E.....	103	BUK9M85-60E.....	102	BZV50 series.....	51	HEF4017B-Q100.....	150	LSF0108-Q100.....	152
BUK7Y98-80E.....	103	BUK9Y3R5-40E.....	99	BZX84-A (-Q) series.....	51	HEF4020B.....	186	LSF0202.....	192
BUK7Y113-100E.....	104	BUK9Y4R4-40E.....	99	BZX84-Q series.....	50	HEF4020B-Q100.....	150	LSF0204-Q100.....	152
BUK7Y153-100E.....	104	BUK9Y4R8-60E.....	101	BZX84J-Q series.....	50	HEF4021B.....	185	MJD31C.....	27
BUK9D23-40E.....	107	BUK9Y6R5-40H.....	99	BZX84J series.....	50	HEF4021B-Q100.....	149	MJD31CA.....	27
BUK9J0R9-40H.....	99	BUK9Y7R0-60E.....	101	BZX84-Q series.....	50	HEF4027B.....	183	MJD31CH-Q*.....	27
BUK9K5R1-30E.....	98	BUK9Y7R2-60E.....	101	BZX84-Q series.....	50	HEF4027B-Q100.....	148	MJD32C.....	27
BUK9K5R6-30E.....	98	BUK9Y7R6-40E.....	99	BZX84-Q series.....	50	HEF4028B.....	187	MJD32CA.....	27
BUK9K6R2-40E.....	100	BUK9Y8R5-80E.....	103	BZX84 series.....	50	HEF4030B.....	177	MJD41C(-Q).....	27
BUK9K6R8-40E.....	100	BUK9Y8R7-60E.....	101	BZX84W-Q series.....	51	HEF4040B.....	186	MJD42C(-Q).....	27
BUK9K8R7-40E.....	100	BUK9Y8R8-60E.....	101	BZX84W series.....	51	HEF4040B-Q100.....	150	MJD44H11.....	27
BUK9K12-60E.....	101	BUK9Y11-80E.....	103	BZX100A.....	50	HEF4043B.....	184	MJD44H11A.....	27
BUK9K12-80L	103	BUK9Y12-40E.....	99	BZX384-A (-Q) series.....	51	HEF4043B-Q100.....	148	MJD45H11.....	27
BUK9K13-40H.....	100	BUK9Y12-100E.....	104	BZX384-Q series.....	50	HEF4046B.....	189	MJD45H11A.....	27
BUK9K13-60E.....	101	BUK9Y13-60E.....	101	BZX384 series.....	50	HEF4047B.....	189	MJD148(-Q).....	27
BUK9K13-60RA.....	101	BUK9Y14-80E.....	103	BZX585-Q series.....	50	HEF4047B-Q100.....	152	MJD2873(-Q).....	27
BUK9K18-40E.....	100	BUK9Y15-60E.....	101	BZX585 series.....	50	HEF4049B.....	170	MJPE31C	27
BUK9K20-80E.....	103	BUK9Y15-100E.....	104	BZX585-Q series.....	50	HEF4049B-Q100.....	145	MJPE31CH(-Q)*	27
BUK9K22-80E.....	103	BUK9Y19-100E.....	104	BZX884 series.....	50	HEF4050B.....	170	MJPE31C-Q	27
BUK9K25-40E.....	100	BUK9Y21-40E.....	99	BZX884S-Q series.....	50	HEF4050B-Q100.....	145	MJPE32C	27
BUK9K25-40RA.....	100	BUK9Y22-60E.....	101	BZX884S series.....	50	HEF4051B.....	193	MJPE32C-Q	27
BUK9K29-100E.....	104	BUK9Y22-100E.....	104	BZX8450-Q series.....	50	HEF4051B-Q100.....	153	MJPE44H11	27
BUK9K30-80E.....	103	BUK9Y25-60E.....	101	BZX8450-Q series BZX8450 series.....	53	HEF4052B.....	153	MJPE44H11-Q	27
BUK9K31-100L	104	BUK9Y25-80E.....	103	BZX8450 series.....	50	HEF4052B-Q100.....	153	MJPE45H11	27
BUK9K32-100E.....	104	BUK9Y29-40E.....	99	BZX8850-Q series BZX8850 series.....	53	HEF4053B.....	193	MJPE45H11-Q	27
BUK9K35-60E.....	101	BUK9Y38-100E.....	104	BZX8850 series.....	50	HEF4053B-Q100.....	153	MJPE2873(-Q)	27
BUK9K35-60RA.....	101	BUK9Y41-80E.....	103	BZX8850s-Q series.....	53	HEF4060B.....	186	MM3Z series.....	50
BUK9K35-100L	104	BUK9Y43-60E.....	101	BZX8850S-Q series.....	50	HEF4060B-Q100.....	150	MM5Z series.....	50
BUK9K45-100E.....	104	BUK9Y59-60E.....	101	BZX38450-Q series.....	50	HEF4066B.....	193	MMBT2222A (-Q).....	25
BUK9K49-80L	103	BUK9Y65-100E.....	104	BZX38450-Q series BZX38450 series.....	53	HEF4066B-Q100.....	153	MMBT3904 (-Q).....	25
BUK9K52-60E.....	101	BUK9Y72-80E.....	103	series.....	53	HEF4067B.....	193	MMBT3906 (-Q).....	25
BUK9K52-60RA.....	101	BUK9Y107-80E.....	103	BZX38450 series.....	50	HEF4067B-Q100.....	153	MMBZ5V6AL-Q.....	77
BUK9K61-100L	104	BUK9Y113-100E.....	104	BZX38450 series.....	50	HEF4069UB.....	170	MMBZ5V6AL(-Q).....	89
BUK9K89-100E.....	104	BUK9Y153-100E.....	104	BZX58550-Q series.....	50	HEF4069UB-Q100.....	145	MMBZ5V6A-T	78
BUK9K134-100E.....	104	BUK761R6-40E.....	99	BZX58550-Q series BZX58550 series.....	53	HEF4070B.....	177	MMBZ5V6AT-Q	78
BUK9M3R3-40H.....	100	BUK764R0-40E.....	99	series.....	53	HEF4071B.....	175	MMBZ6V2AL-Q.....	77
BUK9M4R3-40H.....	100	BUK768R1-40E.....	99	CBT325A.....	194	HEF4073B.....	173	MMBZ6V2AL(-Q).....	78
BUK9M5R0-40H.....	100	BUK961R6-40E.....	99	CBT3253A.....	194	HEF4077B.....	177	MMBZ6V2A-T	78
BUK9M5R2-30E.....	98	BUK7880-55A/CU.....	102	CBT3257A.....	194	HEF4081B.....	173	MMBZ6V2AT-Q	78
BUK9M6R0-40H.....	100	BUK9832-55A/CU.....	102	CBT3257A-Q100.....	154	HEF4082B.....	173	MMBZ6V8AL-Q.....	77
BUK9M6R6-30E.....	98	BUK9875-100A/CU.....	105	CBT3257A-Q100.....	154	HEF4093B.....	174	MMBZ6V8AL(-Q).....	89
BUK9M6R7-40H.....	100	BUK9880-55A/CU.....	102	CBT3306.....	194	HEF4093B.....	181	MMBZ6V8A-T	78
BUK9M7R2-40E.....	100	BUK78150-55A/CU.....	102	CBT3384.....	194	HEF4094B-Q100.....	149	MMBZ6V8AT-Q	78
BUK9M8R5-40H.....	100	BUK98150-55A/CU.....	102	CBTD3384.....	194	HEF4094B-Q100.....	149	MMBZ9V1AL-Q.....	77
BUK9M9R1-40E.....	100	BUK98180-100A/CU.....	105	CBTD3384.....	194	HEF4104B.....	190	MMBZ9V1AL(-Q).....	89
BUK9M9R5-40E.....	100	BXK7Q4R9-40H	100	CBTD3384.....	194	HEF4104B-Q100.....	152	MMBZ9V1A-T	78
BUK9M10-30E.....	98	BXK7Q6R0-40H	100	CBTD3384-Q100.....	154	HEF4118B.....	186	MMBZ9V1AT-Q	78
BUK9M11-40E.....	100	BXK7Q7R5-40H	100	GAN3R2-100CBE.....	137	HEF4520B.....	186	MMBZ10VAL-Q.....	77
BUK9M11-40H.....	100	BXK7Q8R4-40H	100	GAN7R0-150LBE.....	137	HEF4520B-Q100.....	150	MMBZ10VAL(-Q).....	89
BUK9M12-60E.....	102	BXK7Q9R5-40H	100	GAN039-650NBB	137	HEF4521B.....	186	MMBZ10VA-T	78
BUK9M13-80L	103	BXK9Q4R6-40H	100	GAN039-650NTB	137	HEF4521B.....	186	MMBZ10VAT-Q	78
BUK9M14-40E.....	100	BXK9Q7R0-40H	100	GAN041-650WSB	137	HEF4528B.....	189	MMBZ12VAL-Q.....	89
BUK9M15-40H.....	100	BXK9Q12-40H	100	GAN063-650WSA (NRND).....	137	HEF4528B-Q100.....	152	MMBZ12VA-T	78
BUK9M15-60E.....	102	BXK9Q14-80L	103	GAN080-650EBE.....	137	HEF4538B.....	189	MMBZ12VAT-Q	78
BUK9M16-100L	105	BXK9Q16-100L	105	GAN111-650WSB	137	HEF4541B.....	186	MMBZ12VDL-Q.....	77
BUK9M17-30E.....	98	BXK9Q17-80L	103	GAN140-650EBE.....	137	HEF4541B-Q100.....	150	MMBZ12VDL(-Q).....	89
BUK9M19-60E.....	102	BXK9Q19-100L	105	GAN140-650FBE.....	137	HEF4543B.....	187	MMBZ15VAL-Q.....	89
BUK9M20-40H.....	100	BXK9Q20-40H-40H	100	GAN190-650EBE.....	137	HEF4555B.....	187	MMBZ15VA-T	78
BUK9M20-60E.....	102	BXK9Q22-80L	103	GAN190-650FBE.....	137	HEF4555B-Q100.....	151	MMBZ15VAT-Q	78
BUK9M23-80E.....	103	BXK9Q25-100L	105	GANB1R2-040QBA	137	HEF4794B.....	185	MMBZ15VAT-Q.....	78
BUK9M24-40E.....	100	BXK9Q28-80L	103	GANB4R8-040CBA	137	HEF4794B-Q100.....	149	MMBZ15VDL-Q.....	77
BUK9M24-60E.....	102	BXK9Q32-100L	105	GANB8R0-040CBA	137	HEF4894B.....	185	MMBZ15VDL(-Q).....	89
BUK9M24-80L	103	BXK9Q34-80L	103	GANB012-040CBA	137	HEF4894B-Q100.....	149	MMBZ16VAL-Q.....	89
BUK9M28-80E.....	103	BXK9Q38-80L	105	GANE1R8-100QBA	137	HEF40106B.....	181	MMBZ16VAL(-Q).....	89
BUK9M31-60E.....	102	BXK9Q39-100L	105	GANE2R7-100CBA	137	HEF40106B-Q100.....	147	MMBZ16VA-T	78
BUK9M34-100E.....	105	BXK9Q45-80L	103	GANE3R9-150QBA	137	HEF40175B.....	183		
BUK9M35-80E.....	103	BXK9Q50-100L	105						

Types in **bold red** are in development, types in **bold** represent new products

Type number	Page Number	Type number	Page Number	Type number	Page Number	Type number	Page Number	Type number	Page Number
MMBZ16VAT-Q	78	NCR420U	28	NHUMB11 (-Q)	42	NSF080120T1A1-Q	132	NXU0102	190
MMBZ16VTAL-Q	77	NCR420Z	28	NHUMB13 (-Q)	42	NSF080120T2A1	132	NXU0102-Q100	162
MMBZ16VTAL(-Q)	89	NCR421PAS	28	NHUMD2 (-Q)	42	NSF080120T2A1-Q	132	NXU0202	190
MMBZ18VAL-Q	77	NCR421U	28	NHUMD3 (-Q)	42	NUP1301	82	NXU0202-Q100	162
MMBZ18VAL(-Q)	89	NCR421Z	28	NHUMD9 (-Q)	42	NUP1301QA	82	NXU0204	190
MMBZ18VA-T	78	NEH2000BY	197	NHUMD10 (-Q)	42	NUP1301U	82	NXU0204-Q100	153
MMBZ18VAT-Q	78	NEH7100BU	197	NHUMD12 (-Q)	42	NX138AK	123	NXU0304	190
MMBZ18VCL(-Q)	77	NEH7110BU	197	NHUMD13 (-Q)	42	NX138AKH	118	NXU0304-Q100	153
MMBZ18VCL(-Q)	89	NEX10000AUB	197	NHUMH1 (-Q)	42	NX138AKM	118	NXU1014	190
MMBZ20VAL-Q	77	NEX10000UB	197	NHUMH2 (-Q)	42	NX138AKS	126	NXU1014-Q100	153
MMBZ20VAL(-Q)	89	NEX10001UB	197	NHUMH9 (-Q)	42	NX138BK	123	NXV40UN	123
MMBZ20VA-T	78	NEX13120FPC-Q100	197	NHUMH10 (-Q)	42	NX138BKH	118	NXV50UN	123
MMBZ20VAT-Q	78	NEX13120PC-Q100	197	NHUMH11 (-Q)	42	NX138BKM	118	NXV55UN	123
MMBZ20VCL(-Q)	77	NEX30606UA	200	NHUMH13 (-Q)	42	NX138BKS	126	NXV65UP	125
MMBZ20VCL(-Q)	89	NEX40400ADAZ	200	NID1100	199	NX138BKW	123	NXV75UP	125
MMBZ27VAL-Q	77	NEX40400BDZ	200	NID1101	199	NX2301P	107	NXV90EP	125
MMBZ27VAL(-Q)	89	NEX40400CDZ	200	NID5100	199	NX2301P	125	NXV100XP	125
MMBZ27VA-T	78	NEX40400DDZ	200	NID5100-Q100	199	NX3008CBKS	108	NZH series	50
MMBZ27VAT-Q	78	NEX40400EDZ	200	NID6000-Q100	199	NX3008CBKS	126	PBHV2160Z (-Q)	38
MMBZ27VB-QB	79	NEX40400FAZ	200	NMB2227A	25	NX3008NBK	108	PBHV3160Z (-Q)	38
MMBZ27VBQB-Q	79	NEX80601DA	201	NMUX1237	193	NX3008NBK	123	PBHV8115TLH (-Q)	38
MMBZ27VB-QC	79	NEX80602DA	201	NMUX1308	193	NX3008NBKS	108	PBHV8115T (-Q)	38
MMBZ27VBQC-Q	79	NEX80605DA	201	NMUX1308-Q100	153	NX3008NBKS	126	PBHV8115X (-Q)	38
MMBZ27VB-U	79	NEX80611DA	201	NMUX1309	193	NX3008NBKW	108	PBHV8115Z (-Q)	38
MMBZ27VBU-Q	79	NEX80801DA	201	NMUX1309-Q100	153	NX3008NBKW	123	PBHV8118T (-Q)	38
MMBZ27VCL(-Q)	77	NEX80805DA	201	NPS1000	198	NX3008PBK	108	PBHV8140Z (-Q)	38
MMBZ27VCL(-Q)	89	NEX80806DA	201	NPS1001	198	NX3008PBK	125	PBHV8215Z (-Q)	38
MMBZ27VC-T	78	NEX80808DA	201	NPS2122A	199	NX3008PBKS	108	PBHV8515QA	38
MMBZ27VCT-Q	78	NEX80809DA	201	NPS2122B	199	NX3008PBKS	126	PBHV8540T (-Q)	38
MMBZ27VS-T	78	NEX81801DA	201	NPS3005	198	NX3008PBKW	108	PBHV8540X (-Q)	38
MMBZ27VST-Q	78	NEX81802DA	201	NPS3005-Q100	198	NX3008PBKW	125	PBHV8540Z (-Q)	38
MMBZ27VZ-LS	79	NEX90230APA-Q100	201	NPS3102A	199	NX3020NAK	123	PBHV8550X (-Q)	38
MMBZ27VZLS-Q	79	NEX90230BPA-Q100	201	NPS3102B	199	NX3020NAKS	126	PBHV8560Z (-Q)	38
MMBZ33VAL-Q	77	NEX90515APA-Q100	201	NPS4001	198	NX3020NAKW	123	PBHV9040T (-Q)	38
MMBZ33VAL(-Q)	89	NEX90515BPA-Q100	201	NPS4053	198	NX5008NBKH	118	PBHV9040X (-Q)	38
MMBZ33VA-T	78	NEX90530APA-Q100	201	NPS4053	198	NX5008NBKM	118	PBHV9040Z (-Q)	38
MMBZ33VAT-Q	78	NEX90530BPA-Q100	201	NPS4053-Q100	198	NX6008NBK	123	PBHV9050T (-Q)	38
MMBZ33VB-QB	79	NEX91207DE-Q100	202	NPS4053-Q100	198	NX6008NBKS	126	PBHV9050Z (-Q)	38
MMBZ33VBQB-Q	79	NEX91207DF-Q100	202	NPS4069	198	NX6008NBKW	123	PBHV9115TLH (-Q)	38
MMBZ33VB-QC	79	NEX5204100BYY	202	NSF017120C7A0	132	NX6020CAKS	126	PBHV9115T (-Q)	38
MMBZ33VBQC-Q	79	NEX5204100BYY	202	NSF017120C7A0-Q	132	NX7002AKS	126	PBHV9115X (-Q)	38
MMBZ33VB-U	79	NEX5208000BYY	202	NSF017120L4A0	133	NX7002AKW	123	PBHV9115Z (-Q)	38
MMBZ33VBU-Q	79	NEX5208000BYY	202	NSF017120L4A0-Q	133	NX7002BKH	118	PBHV9215Z (-Q)	38
MMBZ33VCL(-Q)	77	NGD4300D	200	NSF017120T1A0	132	NX7002BKM	118	PBHV9414Z (-Q)	38
MMBZ33VCL(-Q)	89	NGD4300DD	200	NSF017120T1A0-Q	132	NX7002BKMB	118	PBHV9515QA	38
MMBZ33VC-T	78	NGD4300DD-Q100	200	NSF017120T2A0	132	NX7002BKS	126	PBHV9540X (-Q)	38
MMBZ33VCT-Q	78	NGD4300GC	200	NSF017120T2A0-Q	132	NX7002BKW	123	PBHV9540Z (-Q)	38
MMBZ33VS-T	78	NGW30765M3DFP	140	NSF030120D7A0	132	NX7002BKXB	126	PBHV9560Z (-Q)	38
MMBZ33VST-Q	78	NGW40765H3DFP	140	NSF030120D7A0-Q	132	NXB0101	192	PBLS1501Y	37
MMBZ33VZ-LS	79	NGW40765M3DFP	140	NSF030120L3A0	133	NXB0101-Q100	162	PBLS1502Y	37
MMBZ33VZLS-Q	79	NGW50765H3DFP	140	NSF030120L4A0	133	NXB0102	192	PBLS1503Y	37
NBM5100A	197	NGW50765M3DFP	140	NSF030120L4A0-Q	133	NXB0102-Q100	162	PBLS1504Y (-Q)	37
NBM5100B	197	NGW60765M3DFP	140	NSF030120T1A0	132	NXB0102UN	210	PBLS2001D	37
NBM7100A	197	NGW75765H3DF	140	NSF030120T1A0-Q	132	NXB0104	192	PBLS2002D	37
NBM7100A-Q100	197	NGW75765H3DFP	140	NSF030120T2A0	132	NXB0104-Q100	152	PBLS2003D	37
NBM7100B	197	NGW75765M3DFP	140	NSF030120T2A0-Q	132	NXB0106	192	PBLS2004D	37
NBM7100B-Q100	197	NHDTA114ET (-Q)	42	NSF040120D7A0	133	NXB0106-Q100	152	PBLS2021D	37
NCA9306	192	NHDTA114EU (-Q)	42	NSF040120D7A1	133	NXB0108	192	PBLS2022D	37
NCA9306-Q100	162	NHDTA114YT (-Q)	42	NSF040120D7A1-Q	133	NXB0108-Q100	152	PBLS2023D	37
NCA9535	195	NHDTA114YU (-Q)	42	NSF040120L3A0	133	NXF6501DC-Q100	196	PBLS2024D	37
NCA9535BY-Q100	154	NHDTA123JT (-Q)	42	NSF040120L4A0	133	NXF6505ADA-Q100	196	PBLS4001D	37
NCA9535PW-Q100	154	NHDTA123JU (-Q)	42	NSF040120L4A1	133	NXF6505BDA-Q100	196	PBLS4001Y	37
NCA9539	195	NHDTA124ET (-Q)	42	NSF040120L4A1-Q	133	NXS0101	192	PBLS4002D	37
NCA9539BY-Q100	154	NHDTA124EU (-Q)	42	NSF040120T1A1	132	NXS0101-Q100	162	PBLS4002Y (-Q)	37
NCA9539PW-Q100	154	NHDTA143ZT (-Q)	42	NSF040120T1A1-Q	132	NXS0102	192	PBLS4003D	37
NCA9555	195	NHDTA143ZU (-Q)	42	NSF040120T2A1	132	NXS0102-Q100	162	PBLS4003Y (-Q)	37
NCA9555BY-Q100	154	NHDTA144ET (-Q)	42	NSF040120T2A1-Q	132	NXS0102UN	210	PBLS4004D	37
NCA9555PW-Q100	154	NHDTA144EU (-Q)	42	NSF060120D7A0	133	NXS0104	192	PBLS4004Y	37
NCA9595	195	NHDTA144EU (-Q)	42	NSF060120D7A0-Q	133	NXS0104-Q100	152	PBLS4005D	37
NCA9595PW-Q100	154	NHDTA144EU (-Q)	42	NSF060120L3A0	133	NXS0104UM	210	PBLS4005Y (-Q)	37
NCA9700	192	NHDTA144ET (-Q)	42	NSF060120L4A0	133	NXS0108	192	PBLS6001D	37
NCA9701A	192	NHDTA144YT (-Q)	42	NSF060120L4A0-Q	133	NXS0108-Q100	152	PBLS6002D (-Q)	37
NCR320PAS	28	NHDTA123JT (-Q)	42	NSF060120T1A0	132	NXS0506	192	PBLS6003D (-Q)	37
NCR320U	28	NHDTA123JU (-Q)	42	NSF060120T1A0-Q	132	NXS0506-Q100	152	PBLS6004D	37
NCR320Z	28	NHDTA124ET (-Q)	42	NSF060120T2A0	132	NXS0506UP	210	PBLS6005D	37
NCR321PAS	28	NHDTA124EU (-Q)	42	NSF060120T2A0-Q	132	NXT4556	192	PBLS6021D (-Q)	37
NCR321U	28	NHDTA143ZT (-Q)	42	NSF080120D7A0	133	NXT4556A	192	PBLS6022D (-Q)	37
NCR321Z	28	NHDTA143ZU (-Q)	42	NSF080120D7A1	133	NXT4556UP	210	PBLS6023D (-Q)	37
NCR401T	28	NHDTA144ET (-Q)	42	NSF080120D7A1-Q	133	NXT4557	192	PBLS6024D (-Q)	37
NCR401U	28	NHDTA144EU (-Q)	42	NSF080120L3A0	133	NXT4558	192	PBRN113ET (-Q)	43
NCR402T	28	NHUMB1 (-Q)	42	NSF080120L4A0	133	NXT4558-Q100	162	PBRN113ZT (-Q)	43
NCR402U	28	NHUMB2 (-Q)	42	NSF080120L4A1	133	NXT4559	192	PBRN123ET (-Q)	43
NCR405U	28	NHUMB9 (-Q)	42	NSF080120L4A1-Q	133	NXU0101	190	PBRN123YT (-Q)	43
NCR420PAS	28	NHUMB10 (-Q)	42	NSF080120T1A1	132	NXU0101-Q100	162	PBRP113ET (-Q)	43

Types in **bold red** are in development, types in **bold** represent new products

Type number	Page Number	Type number	Page Number	Type number	Page Number	Type number	Page Number	Type number	Page Number
PBRP1132T (-Q).....	43	PBSS4220PANS (-Q).....	36	PBSS5580PA.....	34	PDTA124XM.....	41	PDTC123JU (-Q).....	40
PBRP123ET (-Q).....	43	PBSS4230PANP.....	36	PBSS5620PA.....	34	PDTA124XQC (-Q).....	41	PDTC123TM.....	40
PBRP123YT (-Q).....	43	PBSS4230PAN (-Q).....	36	PBSS5630PA.....	34	PDTA124XT (-Q).....	41	PDTC123TT (-Q).....	40
PBSM5240PF.....	38	PBSS4230QA (-Q).....	33	PBSS58110D.....	32	PDTA124XU (-Q).....	41	PDTC123TU.....	40
PBSM5240PFH.....	38	PBSS4230T (-Q).....	33	PBSS58110T (-Q).....	33	PDTA143EM.....	41	PDTC123YM.....	40
PBSS301ND PBSS4420D (-Q).....	32	PBSS4240DPN.....	36	PBSS58110X.....	32	PDTA143EQB (-Q).....	41	PDTC123YQB(-Q)	40
PBSS301NX (-Q).....	32	PBSS4240T (-Q).....	33	PBSS58110Y.....	33	PDTA143EQC (-Q).....	41	PDTC123YT (-Q).....	40
PBSS301NZ.....	32	PBSS4240X.....	32	PBSS58110Z (-Q).....	32	PDTA143ET (-Q).....	41	PDTC123YU (-Q).....	40
PBSS301PD PBSS5420D.....	34	PBSS4240Y.....	33	PBSS58510PA.....	32	PDTA143EU (-Q).....	41	PDTC124EM.....	40
PBSS301PX (-Q).....	34	PBSS4250X.....	32	PBSS59110D.....	34	PDTA143TM.....	41	PDTC124EQB (-Q).....	40
PBSS301PZ.....	34	PBSS4260PANP (-Q).....	36	PBSS59110T (-Q).....	35	PDTA143TT.....	41	PDTC124EQC (-Q).....	40
PBSS302ND (-Q).....	32	PBSS4260PANPS (-Q).....	36	PBSS59110X.....	34	PDTA143TU (-Q).....	41	PDTC124ET (-Q).....	40
PBSS302NX (-Q).....	32	PBSS4260PAN (-Q).....	36	PBSS59110Y.....	35	PDTA143XM.....	41	PDTC124EU (-Q).....	40
PBSS302NZ (-Q).....	32	PBSS4260PANS (-Q).....	36	PBSS59110Z (-Q).....	34	PDTA143XQB (-Q).....	41	PDTC124TM.....	40
PBSS302PD.....	34	PBSS4260QA (-Q).....	33	PBSS59410PA.....	34	PDTA143XQC (-Q).....	41	PDTC124TT.....	40
PBSS302PX (-Q).....	34	PBSS4310PAS-Q.....	32	PCA9535.....	195	PDTA143XT (-Q).....	41	PDTC124TU.....	40
PBSS302PZ.....	34	PBSS4320T (-Q).....	33	PCA9539.....	195	PDTA143XU.....	41	PDTC124XM.....	40
PBSS303ND.....	32	PBSS4320X.....	32	PCA9555.....	195	PDTA143ZM.....	41	PDTC124XQB (-Q).....	40
PBSS303NX (-Q).....	32	PBSS4330PA.....	32	PCMF1HDMI2BA-C	87	PDTA143ZQB (-Q).....	41	PDTC124XQC (-Q).....	40
PBSS303NZ.....	32	PBSS4330PAS (-Q) ²⁾	32	PCMF1HDMI2BA-C.....	210	PDTA143ZQC (-Q).....	41	PDTC124XT (-Q).....	40
PBSS303PD (-Q).....	34	PBSS4330X.....	32	PCMF1HDMI2S.....	87	PDTA143ZT (-Q).....	41	PDTC124XU (-Q).....	40
PBSS303PX (-Q).....	34	PBSS4350D (-Q).....	32	PCMF1USB3BA/C.....	87	PDTA143ZU (-Q).....	41	PDTC143EM.....	40
PBSS303PZ.....	34	PBSS4350PAS (-Q)	32	PCMF1USB3B/C.....	87	PDTA144EM.....	41	PDTC143EQB (-Q).....	40
PBSS304ND.....	32	PBSS4350T (-Q).....	33	PCMF1USB3S.....	87	PDTA144EQB (-Q).....	41	PDTC143EQC (-Q).....	40
PBSS304NX (-Q).....	32	PBSS4350X.....	32	PCMF2HDMI2BA-C	87	PDTA144EQC (-Q).....	41	PDTC143ET (-Q).....	40
PBSS304NZ.....	32	PBSS4350Z (-Q).....	32	PCMF2HDMI2BA-C.....	210	PDTA144ET (-Q).....	41	PDTC143EU (-Q).....	40
PBSS304PD.....	34	PBSS4360PANS (-Q) ²⁾	32	PCMF2HDMI2S.....	87	PDTA144EU (-Q).....	41	PDTC143TM (-Q).....	40
PBSS304PX (-Q).....	34	PBSS4360X (-Q)	32	PCMF2USB3BA/C.....	87	PDTA144TM.....	41	PDTC143TT (-Q).....	40
PBSS304PZ.....	34	PBSS4360Z (-Q).....	32	PCMF2USB3B/C.....	87	PDTA144TT.....	41	PDTC143TU (-Q).....	40
PBSS305ND.....	32	PBSS4480X (-Q).....	32	PCMF2USB3S.....	87	PDTA144TU.....	41	PDTC143XM.....	40
PBSS305NX (-Q).....	32	PBSS4520X (-Q).....	32	PCMF3HDMI2BA-C	87	PDTA144VM.....	41	PDTC143XQB (-Q).....	40
PBSS305NZ.....	32	PBSS4540X (-Q).....	32	PCMF3HDMI2BA-C.....	210	PDTA144VT (-Q).....	41	PDTC143ZT (-Q).....	40
PBSS305PD.....	34	PBSS4540Z (-Q).....	32	PCMF3HDMI2S.....	87	PDTA144VU.....	41	PDTC143ZU (-Q).....	40
PBSS305PX (-Q).....	34	PBSS4560PA.....	32	PCMF3USB3BA/C.....	87	PDTA144WM.....	41	PDTC143XU (-Q).....	40
PBSS305PZ.....	34	PBSS4560B/C.....	32	PCMF3USB3B/C.....	87	PDTA144WT (-Q).....	41	PDTC143ZM (-Q).....	40
PBSS306NX (-Q).....	32	PBSS4620PA (-Q).....	32	PCMF3USB3S.....	87	PDTA144WU (-Q).....	41	PDTC143ZQB (-Q).....	40
PBSS306NZ.....	32	PBSS4630PA.....	32	PDTA113EM.....	41	PDTB113EQA.....	43	PDTC143ZQC (-Q).....	40
PBSS306PX (-Q).....	34	PBSS5112PAP.....	36	PDTA113ET.....	41	PDTB113ET (-Q).....	43	PDTC143ZT (-Q).....	40
PBSS306PZ.....	34	PBSS5120T (-Q).....	35	PDTA113EU.....	41	PDTB113EU (-Q).....	43	PDTC143ZU (-Q).....	40
PBSS2515MB.....	33	PBSS5130PAP (-Q).....	36	PDTA113ZM.....	41	PDTB113ZQA.....	43	PDTC144EM (-Q).....	40
PBSS2515YPN (-Q).....	36	PBSS5130T (-Q).....	35	PDTA113ZT (-Q).....	41	PDTB113ZT (-Q).....	43	PDTC144EQB (-Q).....	40
PBSS2540MB (-Q).....	33	PBSS5140T (-Q).....	35	PDTA113ZU (-Q).....	41	PDTB113ZU (-Q).....	43	PDTC144EQC (-Q).....	40
PBSS3515MB.....	35	PBSS5140U (-Q).....	35	PDTA114EM.....	41	PDTB114EQA.....	43	PDTC144ET (-Q).....	40
PBSS3540MB.....	35	PBSS5160DS (-Q).....	36	PDTA114EQB (-Q).....	41	PDTB114ET (-Q).....	43	PDTC144EU (-Q).....	40
PBSS4021NT (-Q).....	33	PBSS5160PAP (-Q).....	36	PDTA114EQC (-Q).....	41	PDTB114EU (-Q).....	43	PDTC144TM.....	40
PBSS4021NX.....	32	PBSS5160PAPS (-Q).....	36	PDTA114ET (-Q).....	41	PDTB123EQA.....	43	PDTC144TT.....	40
PBSS4021NZ (-Q).....	32	PBSS5160QA.....	35	PDTA114EU (-Q).....	41	PDTB123ET (-Q).....	43	PDTC144TU (-Q).....	40
PBSS4021PT (-Q).....	35	PBSS5160T (-Q).....	35	PDTA114TM.....	41	PDTB123EU (-Q).....	43	PDTC144VM.....	40
PBSS4021PX (-Q).....	34	PBSS5160U.....	35	PDTA114TT.....	41	PDTB123TT (-Q).....	43	PDTC144VT (-Q).....	40
PBSS4021PZ (-Q).....	34	PBSS5220PAPS (-Q).....	36	PDTA114TU (-Q).....	41	PDTB123YQA.....	43	PDTC144VU (-Q).....	40
PBSS4032ND ³⁾	32	PBSS5220T (-Q).....	35	PDTA114YM.....	41	PDTB123YT (-Q).....	43	PDTC144WM.....	40
PBSS4032NT ³⁾	33	PBSS5230PAP (-Q).....	36	PDTA114YQB (-Q).....	41	PDTB123YU (-Q).....	43	PDTC144WT (-Q).....	40
PBSS4032NX ³⁾	32	PBSS5230T (-Q).....	35	PDTA114YQC (-Q).....	41	PDTB143EQA.....	43	PDTC144WU (-Q).....	40
PBSS4032NZ ³⁾	32	PBSS5240T (-Q).....	35	PDTA114YT (-Q).....	41	PDTB143ET (-Q).....	43	PDD113EQA.....	43
PBSS4032PD ³⁾	34	PBSS5240X.....	34	PDTA114YU (-Q).....	41	PDTB143EU (-Q).....	43	PDD113ET (-Q).....	43
PBSS4032PT ³⁾	35	PBSS5240Y.....	35	PDTA115EM.....	41	PDTB143XQA.....	43	PDD113EU (-Q).....	43
PBSS4032PX ³⁾	34	PBSS5250PAS (-Q)	34	PDTA115ET (-Q).....	41	PDTB143XT (-Q).....	43	PDD113ZQA.....	43
PBSS4032PZ ³⁾	34	PBSS5250TH (-Q).....	35	PDTA115EU (-Q).....	41	PDTB143XU (-Q).....	43	PDD113ZT (-Q).....	43
PBSS4041NT (-Q).....	33	PBSS5250T (-Q).....	35	PDTA115TM.....	41	PDTC114EM (-Q).....	40	PDD113ZU (-Q).....	43
PBSS4041NX.....	32	PBSS5250X.....	34	PDTA115TT.....	41	PDTC114EQB (-Q).....	40	PDD114EQA.....	43
PBSS4041NZ (-Q).....	32	PBSS5255PAPS (-Q).....	36	PDTA115TU.....	41	PDTC114EQC (-Q).....	40	PDD114ET (-Q).....	43
PBSS4041PT (-Q).....	35	PBSS5260PAP (-Q).....	36	PDTA123EM.....	41	PDTC114ET (-Q).....	40	PDD114EU (-Q).....	43
PBSS4041PX.....	34	PBSS5260PAPS (-Q).....	36	PDTA123ET (-Q).....	41	PDTC114EU (-Q).....	40	PDD123EQA.....	43
PBSS4041PZ (-Q).....	34	PBSS5260QA (-Q).....	35	PDTA123EU (-Q).....	41	PDTC114TM.....	40	PDD123ET (-Q).....	43
PBSS4112PANP (-Q).....	36	PBSS5320D.....	34	PDTA123JM.....	41	PDTC114TT (-Q).....	40	PDD123EU (-Q).....	43
PBSS4112PAN (-Q).....	36	PBSS5320T (-Q).....	35	PDTA123JQB (-Q).....	41	PDTC114TU (-Q).....	40	PDD123TT (-Q).....	43
PBSS4120T (-Q).....	33	PBSS5320X.....	34	PDTA123JQC (-Q).....	41	PDTC114YM (-Q).....	40	PDD123YQA.....	43
PBSS4130PANP (-Q).....	36	PBSS5330PA.....	34	PDTA123JT (-Q).....	41	PDTC114YQB (-Q).....	40	PDD123YT (-Q).....	43
PBSS4130PAN (-Q).....	36	PBSS5330PAS ²⁾	34	PDTA123JU (-Q).....	41	PDTC114YQC (-Q).....	40	PDD123YU (-Q).....	43
PBSS4130QA (-Q).....	33	PBSS5330X.....	34	PDTA123TM.....	41	PDTC114YT (-Q).....	40	PDD123EQA.....	43
PBSS4130T (-Q).....	33	PBSS5350D (-Q).....	34	PDTA123TT.....	41	PDTC114YU (-Q).....	40	PDD123ET (-Q).....	43
PBSS4140DPN (-Q).....	36	PBSS5350PAS (-Q)	34	PDTA123TU.....	41	PDTC115EM (-Q).....	40	PDD123EU (-Q).....	43
PBSS4140T (-Q).....	33	PBSS5350TH (-Q).....	35	PDTA123YM.....	41	PDTC115ET (-Q).....	40	PDD123XQA.....	43
PBSS4140U (-Q).....	33	PBSS5350T (-Q).....	35	PDTA123YQB(-Q)	41	PDTC115EU (-Q).....	40	PDD123XT (-Q).....	43
PBSS4160DPN.....	36	PBSS5350X.....	34	PDTA123YT (-Q).....	41	PDTC115TM.....	40	PDD123XU (-Q).....	43
PBSS4160DS (-Q).....	36	PBSS5350Z (-Q).....	34	PDTA123YU (-Q).....	41	PDTC115TT.....	40	PDZ-B series.....	50
PBSS4160PANP (-Q).....	36	PBSS5360PAS (-Q) ²⁾	34	PDTA124EM.....	41	PDTC115TU.....	40	PDZ-B series.....	52
PBSS4160PANPS.....	36	PBSS5360X (-Q).....	34	PDTA124EQB (-Q).....	41	PDTC123EM.....	40	PDZ-GW series.....	50
PBSS4160PAN (-Q).....	36	PBSS5480X (-Q).....	34	PDTA124EQC (-Q).....	41	PDTC123ET (-Q).....	40	PDZ-GW series.....	52
PBSS4160PANS (-Q).....	36	PBSS5520X (-Q).....	34	PDTA124ET (-Q).....	41	PDTC123EU (-Q).....	40	PESD1CANFD24L-Q	74
PBSS4160QA (-Q).....	33	PBSS5540X (-Q).....	34	PDTA124EU (-Q).....	41	PDTC123JM.....	40	PESD1CANFD24LS-Q	74
PBSS4160T (-Q).....	33	PBSS5540Z (-Q).....	34	PDTA124TM.....	41	PDTC123JQB (-Q).....	40	PESD1CANFD30L-Q	74
PBSS4160U (-Q).....	33	PBSS5540Z (-Q).....	34	PDTA124TT.....	41	PDTC123JQC (-Q).....	40	PESD1CANFD30LS-Q	74
PBSS4160X (-Q)	32	PBSS5560PA.....	34	PDTA124TU.....	41	PDTC123JT (-Q).....	40	PESD1CANFD33L-Q	74

Types in **bold red** are in development, types in **bold** represent new products

Type number	Page Number	Type number	Page Number	Type number	Page Number	Type number	Page Number	Type number	Page Number
PESD1CANFD33LS-Q	74	PESD2V0Y1BSF.....	80	PESD4V0Z1BSF.....	80	PESD5V0V2BM.....	86	PESD18VF1BBL-Q.....	77
PESD1CANFD36L-Q	74	PESD2V0Y1BXM	80	PESD4V0Z2BCDF	82	PESD5V0V2BMB.....	86	PESD18VF1BBSF	81
PESD1CANFD36LS-Q	74	PESD2V5X1BSF.....	80	PESD5V0C1BLS-Q	76	PESD5V0V1BDSF.....	80	PESD18VF1BLS-Q	77
PESD1ETH1GLS-Q.....	75	PESD2V5Y1BSF.....	80	PESD5V0C1BSF.....	80	PESD5V0X1BCAL.....	81	PESD18VV1BASf	84
PESD1ETH1GXS-Q.....	75	PESD2V8R1BSF.....	80	PESD5V0C1ULS-Q	76	PESD5V0X1BCL.....	81	PESD18VV1BBSF.....	84
PESD1ETH10L-Q	75	PESD2V8Y1BSF	80	PESD5V0C1USF.....	80	PESD5V0X1BCSF.....	81	PESD18VY1BBIF	81
PESD1ETH10LS-Q	75	PESD3USB3B.....	87	PESD5V0C2BDF	82	PESD5V0X1BL.....	81	PESD20VV1BSF	84
PESD1IVN24A-Q.....	74	PESD3USB3S.....	87	PESD5V0C2UM	81	PESD5V0X1BT.....	81	PESD22VF1BSF	84
PESD1IVN24L-Q.....	74	PESD3V3C1BSF.....	80	PESD5V0C2UM-Q	76	PESD5V0X1UAB.....	80	PESD24VF1BBL	81
PESD1IVN24LS-Q.....	74	PESD3V3C2UM	81	PESD5V0F1BL.....	81	PESD5V0X1UALD.....	80	PESD24VF1BBL-Q.....	77
PESD1IVN27A-Q.....	74	PESD3V3F1BSF.....	80	PESD5V0F1BLD.....	81	PESD5V0X1UB.....	80	PESD24VF1BBSF	81
PESD1IVN27L-Q.....	74	PESD3V3F2UT	80	PESD5V0F1BLD-Q.....	75	PESD5V0X1ULD.....	80	PESD24VF1BLS-Q	77
PESD1IVN27LS-Q.....	74	PESD3V3L1BBSF.....	84	PESD5V0F1BLD-Q.....	77	PESD5V0X2UAM.....	81	PESD24VL1BA.....	84
PESD1USB3B.....	87	PESD3V3L1BSF.....	84	PESD5V0F1BL-Q	75	PESD5V0X2UAMB.....	81	PESD24VL2BT.....	86
PESD1USB3S.....	87	PESD3V3L1BSL.....	85	PESD5V0F1BRDL.....	81	PESD5V0X2UM.....	81	PESD24VS1UA.....	84
PESD1V0C1BSF	80	PESD3V3L1UB.....	83	PESD5V0F1BRDL-Q.....	77	PESD5V0X2UMB.....	81	PESD24VS1UB.....	83
PESD1V0H1BSF	80	PESD3V3L1UL.....	83	PESD5V0F1BRF	81	PESD5V0X2UT	80	PESD24VS1UL.....	83
PESD1V0R1BCSF	80	PESD3V3L2BT.....	85	PESD5V0F1BSF.....	81	PESD5V0Y1BCSF	80	PESD24VS1ULD.....	83
PESD1V0R1BDSF	80	PESD3V3L2UM.....	85	PESD5V0F1USF.....	80	PESD5V0Z1BDSF.....	80	PESD24VS1ULS.....	83
PESD1V0R1BESF	80	PESD3V3L4BHC	86	PESD5V0F2UT	80	PESD5V2S2UT.....	85	PESD24VS2UT.....	85
PESD1V0R1BFSF	80	PESD3V3L4UF.....	86	PESD5V0H1BLG-Q	76	PESD5V5C1BBSF	81	PESD24VS2UT.....	85
PESD1V0Y1BBSF	80	PESD3V3L4UG.....	86	PESD5V0H1BLL-Q	76	PESD5V5C1BL	81	PESD24VS4UD.....	86
PESD1V0Y1BIF	81	PESD3V3L5UF.....	86	PESD5V0H1BSF.....	80	PESD5V5C1BL-Q	76	PESD24VS5UD.....	86
PESD1V2Y1BSF	80	PESD3V3L5UY.....	86	PESD5V0H2BFG-Q	76	PESD5V5C1UBSF	80	PESD24VU1UT.....	80
PESD2CAN24LT-Q	74	PESD3V3S1BL.....	84	PESD5V0L1BA.....	84	PESD5V5C1UL	80	PESD24VV1BA.....	84
PESD2CAN24T-Q	74	PESD3V3S1BSF.....	84	PESD5V0L1BSF.....	84	PESD5V5C1UL-Q	76	PESD24VV1BBSF	84
PESD2CAN24XLT-Q	74	PESD3V3S1UB.....	83	PESD5V0L1BSL.....	85	PESD5V5S1BSF.....	84	PESD24VV1BL	85
PESD2CANFD24LT-Q.....	74	PESD3V3S1UL.....	83	PESD5V0L1UA.....	84	PESD5V5U1BCSF.....	84	PESD24VV1BSF	84
PESD2CANFD24LU-Q.....	74	PESD3V3S1ULS.....	83	PESD5V0L1UB.....	83	PESD5Z2.5.....	83	PESD24VV2BT.....	86
PESD2CANFD24UQB-Q.....	75	PESD3V3S2UAT.....	85	PESD5V0L1UL.....	83	PESD5Z3.3.....	83	PESD24VY1BBSF	81
PESD2CANFD24U-QC.....	75	PESD3V3S2UT.....	85	PESD5V0L1ULD.....	83	PESD5Z5.0.....	83	PESD24VY1BSF	81
PESD2CANFD24U-T.....	74	PESD3V3S4UD.....	86	PESD5V0L1USF.....	83	PESD5Z6.0.....	83	PESD27VV1BA.....	84
PESD2CANFD24U-U.....	74	PESD3V3S4UF.....	86	PESD5V0L2BT.....	85	PESD5Z7.0.....	83	PESD27VV1BL	85
PESD2CANFD24VQB-Q.....	75	PESD3V3S5UD.....	86	PESD5V0L2UM.....	85	PESD5Z12.....	83	PESD27VV1BSF	84
PESD2CANFD24VQC-Q.....	75	PESD3V3T1BL.....	84	PESD5V0L2UMB.....	85	PESD6V0L2UU.....	85	PESD27VV2BT.....	86
PESD2CANFD24VT-Q.....	74	PESD3V3T1BLD.....	85	PESD5V0L2UU.....	85	PESD6V3S1UL.....	83	PESD30VF1BBL	81
PESD2CANFD24V-U.....	74	PESD3V3T1BLS.....	85	PESD5V0L4UF.....	86	PESD6V5C1USF.....	80	PESD30VF1BBL-Q.....	77
PESD2CANFD27LT-Q.....	74	PESD3V3U1BCSF.....	84	PESD5V0L4UG.....	86	PESD7V0C1BSF.....	81	PESD30VF1BLS-Q	77
PESD2CANFD27L-U.....	74	PESD3V3U1UB.....	83	PESD5V0L5UF.....	86	PESD7V0H1BSF.....	81	PESD30VF1BSF	81
PESD2CANFD27UQB-Q.....	75	PESD3V3U1UL.....	83	PESD5V0L5UY.....	86	PESD7V0L1BSL.....	85	PESD30VV1BSF	84
PESD2CANFD27U-QC.....	75	PESD3V3U1UL.....	83	PESD5V0R1BCSF	80	PESD7V0R1BSF.....	81	PESD30VY1BSF	81
PESD2CANFD27U-T.....	74	PESD3V3U1UT.....	80	PESD5V0R1BDSF	80	PESD7V1R1BCSF	81	PESD32VF1BLS-Q	77
PESD2CANFD27U-U.....	74	PESD3V3V1BCSF.....	84	PESD5V0R1BSF.....	80	PESD7V1R1BDSF	81	PESD32VL1BA.....	84
PESD2CANFD27VQB-Q.....	75	PESD3V3V1BL.....	84	PESD5V0S1BA.....	85	PESD8V0S1UL.....	83	PESD33VV1ASF	84
PESD2CANFD27V-QC.....	75	PESD3V3W1BCSF.....	80	PESD5V0S1BB.....	85	PESD8V0S1ULD.....	83	PESD36VL1BA.....	84
PESD2CANFD27V-U.....	74	PESD3V3X1BCSF.....	81	PESD5V0S1BL.....	85	PESD8V0S1ULS.....	83	PESD36VS1UJ.....	84
PESD2CANFD27V-T.....	74	PESD3V3X1BL.....	81	PESD5V0S1BLD.....	85	PESD9V0C1BSF	81	PESD36VS1UL.....	83
PESD2CANFD33UQB-Q	75	PESD3V3X2UT	80	PESD5V0S1BLD-Q.....	77	PESD9V0W1BDSF	81	PESD36VS1ULS.....	83
PESD2CANFD36LQB-Q	75	PESD3V3X4UHC.....	82	PESD5V0S1BSF.....	84	PESD9V0Z1BDSF	81	PESD36VS2UT.....	85
PESD2CANFD36LQC-Q	75	PESD3V3Y1BSF.....	80	PESD5V0S1UA.....	84	PESD12VA-SF.....	84	PESD36VV1ASF	84
PESD2CANFD36LT-Q.....	74	PESD3V3Z1BCSF.....	80	PESD5V0S1UB.....	83	PESD12VL1BA.....	84	PESD42VS2UT.....	85
PESD2CANFD36LU-Q.....	74	PESD3V3Z1BSF.....	80	PESD5V0S1UJ.....	84	PESD12VL1BSL.....	85	PESD48VV2BT	86
PESD2CANFD36UQB-Q	75	PESD4USB38BTBR-Q	76	PESD5V0S1UL.....	83	PESD12VL2BT.....	85	PHDMI2AB4.....	82
PESD2CANFD36UQC-Q	75	PESD4USB38BTBS-Q	76	PESD5V0S1ULD.....	83	PESD12VS1UA.....	84	PHDMI2BB4	82
PESD2CANFD36UT-Q.....	74	PESD4USB38BTBS-Q	76	PESD5V0S1ULS.....	83	PESD12VS1UB.....	83	PHDMI2CB4	82
PESD2CANFD36U-U.....	74	PESD4USB38CTBR-Q	76	PESD5V0S1USF.....	83	PESD12VS1UJ.....	84	PHDMI2FC4	82
PESD2CANFD36VQB-Q	75	PESD4USB38TBR-Q.....	76	PESD5V0S2BQA.....	86	PESD12VS1UL.....	83	PHDMI2FR4.....	82
PESD2CANFD36VQC-Q	75	PESD4USB38TBS-Q.....	76	PESD5V0S2BT.....	86	PESD12VS1ULD.....	83	PHDMI2FS4	82
PESD2CANFD36VU-Q.....	74	PESD4USB38TBS-Q.....	76	PESD5V0S2UT.....	85	PESD12VS1ULS.....	83	PHPT60406NY (-Q).....	39
PESD2CANFD36VU-U.....	74	PESD4USB38TBS-Q	76	PESD5V0S4UD.....	86	PESD12VS2UT.....	85	PHPT60406PY (-Q).....	39
PESD2CANFD54LT-Q	74	PESD4USB38TBS-Q	76	PESD5V0S4UF.....	86	PESD12VS5UD.....	86	PHPT60410NY (-Q).....	39
PESD2CANFD54VT-Q	74	PESD4USB38TBS-Q	76	PESD5V0S5UD.....	86	PESD12VU1UT.....	80	PHPT60410PY (-Q).....	39
PESD2CANFD60LT-Q	74	PESD4USB38TBS-Q.....	76	PESD5V0U1BA.....	85	PESD12VV1BL.....	85	PHPT60415NY (-Q).....	39
PESD2CANFD60VT-Q	74	PESD4USB38TBS-Q.....	76	PESD5V0U1BB.....	85	PESD12VV1BLS.....	85	PHPT60415PY (-Q).....	39
PESD2CANFD72LT-Q	74	PESD4USB38TBS-Q.....	76	PESD5V0U1BL.....	85	PESD12VV1BSF	84	PHPT60603NY (-Q).....	39
PESD2CANFD72VT-Q	74	PESD4USB58BTBR-Q	76	PESD5V0U1BLD.....	85	PESD12VW1BCSF	81	PHPT60603PY (-Q).....	39
PESD2ETH1GT-Q.....	75	PESD4USB58BTBS-Q	76	PESD5V0U1UA.....	84	PESD12VY1BSF	81	PHPT60606NY (-Q).....	39
PESD2ETH1GXT-Q.....	75	PESD4USB58BTBS-Q	76	PESD5V0U1UB.....	83	PESD15VL1BA.....	84	PHPT60606PY (-Q).....	39
PESD2ETH100T-Q.....	75	PESD4USB58TBR-Q.....	76	PESD5V0U1UL.....	83	PESD15VL2BT.....	86	PHPT60610NY (-Q).....	39
PESD2ETHAD-Q.....	75	PESD4USB58TBS-Q.....	76	PESD5V0U1UT.....	80	PESD15VS1UB.....	83	PHPT60610PY (-Q).....	39
PESD2ETHAX-Q.....	75	PESD4USB58TBS-Q.....	76	PESD5V0U2BM.....	86	PESD15VS1UL.....	83	PHPT61002NYCLH (-Q).....	39
PESD2ETHHD-Q.....	75	PESD4USB58TBR-Q	76	PESD5V0U2BMB.....	86	PESD15VS1ULD.....	83	PHPT61002NYC (-Q).....	39
PESD2ETHX-Q.....	75	PESD4USB58TBS-Q	76	PESD5V0U2BT.....	86	PESD15VS1ULS.....	83	PHPT61002PYCLH (-Q).....	39
PESD2IVN24T-Q.....	74	PESD4USB58TBS-Q	76	PESD5V0U4BF.....	86	PESD15VS2UAT.....	85	PHPT61002PYC (-Q).....	39
PESD2IVN24-U.....	74	PESD4USB5UTBR-Q.....	76	PESD5V0U5BF.....	86	PESD15VS2UT.....	85	PHPT61003NY (-Q).....	39
PESD2IVN27-T.....	74	PESD4USB5UTBS-Q.....	76	PESD5V0V1BA.....	85	PESD15VS5UD.....	86	PHPT61003PY (-Q).....	39
PESD2IVN27-U.....	74	PESD4USB5UTTS-Q.....	76	PESD5V0V1BB.....	85	PESD15VU1UT.....	80	PHPT61006NY (-Q).....	39
PESD2IVN48T-Q.....	74	PESD4V0W1BCSF.....	80	PESD5V0V1BBSF.....	84	PESD15VV1BSF	84	PHPT61006PY (-Q).....	39
PESD2USB3B.....	87	PESD4V0X2UM	81	PESD5V0V1BCL.....	84	PESD15VW1ACSF	81	PHPT61010NY (-Q).....	39
PESD2USB3S.....	87	PESD4V0Y1BBSF	80	PESD5V0V1BL.....	84	PESD15VW1BCSF	81	PHPT61010PY (-Q).....	39
PESD2USB3UVT-Q.....	76	PESD4V0Y1BCSF	80	PESD5V0V1BLD.....	85	PESD15VW1UCSF	80	PHPT61003ONK (-Q).....	39
PESD2USB3UXT-Q.....	76	PESD4V0Y1BHSF	80	PESD5V0V1BLD-Q.....	77	PESD15VY1BSF	81	PHPT61003ONPK (-Q).....	39
PESD2USB5UVT-Q.....	76	PESD4V0Y1BSF.....	80	PESD5V0V1BLS.....	85	PESD16VV1BSF.....	84	PHPT610030PK (-Q).....	39
PESD2USB5UXT-Q.....	76	PESD4V0Z1BCSF.....	80	PESD5V0V1BSF.....	84	PESD18VF1BBL	81	PHPT610035NK.....	30

Types in **bold red** are in development, types in **bold** represent new products

Type number	Page Number	Type number	Page Number	Type number	Page Number	Type number	Page Number	Type number	Page Number
PHPT610035NK (-Q).....	39	PMCM6501VPE.....	210	PMEG060V030EPE (-Q).....	67	PMEG3005EH (-Q).....	68	PMEG4010EXD (-Q)	66
PHPT610035PK.....	30	PMCPB5530X.....	121	PMEG060V050EPE (-Q).....	67	PMEG3005EJ (-Q).....	68	PMEG4010EXE (-Q).....	66
PHPT610035PK (-Q).....	39	PMCPB5530X.....	126	PMEG060V100EPE (-Q).....	67	PMEG3005ELD (-Q).....	64	PMEG4015EPK (-Q).....	64
PIMC31.....	43	PMCPB5530XA	108	PMEG100T10ELR (-Q) ¹⁾	66	PMEG3005EL (-Q).....	64	PMEG4020CER (-Q).....	66
PIMC31PA	43	PMCXB290UE.....	119	PMEG100T10ELXD (-Q) ¹⁾	66	PMEG3005ELS (-Q).....	64	PMEG4020EPA (-Q).....	64
PIMC31PAS-Q	43	PMCXB900UE.....	119	PMEG100T20ELP (-Q) ¹⁾	66	PMEG3005ESF.....	64	PMEG4020EPAS (-Q).....	64
PIMC32PA	43	PMCXB900UE.....	126	PMEG100T20ELR (-Q) ¹⁾	66	PMEG3005ET (-Q).....	68	PMEG4020EPK (-Q).....	64
PIMC32PAS-Q	43	PMCXB1000UE.....	119	PMEG100T20ELXD (-Q) ¹⁾	66	PMEG3010AESA.....	64	PMEG4020EPQ (-Q).....	66
PIMC32 (-Q).....	43	PMCXB1000UE.....	126	PMEG100T030ELPE (-Q) ¹⁾	67	PMEG3010AESB.....	64	PMEG4020ER (-Q).....	66
PIMN31.....	43	PMD2001D.....	31	PMEG100T30ELP (-Q) ¹⁾	67	PMEG3010BEA (-Q).....	68	PMEG4020ETP (-Q).....	66
PIMN31PA	43	PMD3001D.....	31	PMEG100T30ELR (-Q) ¹⁾	67	PMEG3010BEA(-Q).....	68	PMEG4020ETR (-Q).....	66
PIMN31PAS-Q	43	PMDPB30XN.....	121	PMEG100T050ELPE (-Q) ¹⁾	67	PMEG3010BEP (-Q).....	66	PMEG4020EXD (-Q)	66
PIMN32PA	43	PMDPB30XN.....	126	PMEG100T50ELP (-Q) ¹⁾	67	PMEG3010BER (-Q).....	66	PMEG4020EXE (-Q).....	66
PIMN32PAS-Q	43	PMDPB30XNA	108	PMEG100T080ELPE (-Q) ¹⁾	67	PMEG3010CEH (-Q).....	68	PMEG4030AEXE (-Q).....	66
PIMN32 (-Q).....	43	PMDPB55XP.....	121	PMEG100T100ELPE (-Q) ¹⁾	67	PMEG3010CEJ (-Q).....	68	PMEG4030CEP (-Q)	66
PIMP31PA	43	PMDPB55XP.....	126	PMEG100T120ELPE ¹⁾	67	PMEG3010EB (-Q).....	68	PMEG4030CER (-Q).....	66
PIMP31PAS-Q	43	PMDPB55XPA	108	PMEG100T150ELPE ¹⁾	67	PMEG3010EGW (-Q).....	68	PMEG4030CEP (-Q).....	66
PIMP31 (-Q).....	43	PMDPB56XNEA.....	107	PMEG100T200ELPE ¹⁾	67	PMEG3010EH (-Q).....	68	PMEG4030ER (-Q).....	66
PIMP32PA	43	PMDPB56XNEA.....	108	PMEG100V060EPE (-Q).....	67	PMEG3010EP (-Q).....	66	PMEG4030ETP (-Q).....	66
PIMP32PAS-Q	43	PMDPB56XNEA.....	121	PMEG100V080EPE (-Q).....	67	PMEG3010ER (-Q).....	66	PMEG4030ETP (-Q).....	66
PIMP32 (-Q).....	43	PMDPB56XNEA.....	126	PMEG100V100EPE (-Q).....	67	PMEG3010ESB.....	64	PMEG4030EXE (-Q).....	66
PIMT1 (-Q).....	24	PMDPB58UPE.....	121	PMEG1020EA (-Q).....	68	PMEG3010ET (-Q).....	68	PMEG4050CEP (-Q)	67
PIMZ2 (-Q).....	24	PMDPB58UPE.....	126	PMEG1020EA (-Q).....	68	PMEG3010EXD (-Q)	66	PMEG4050EP (-Q).....	67
PLVA600A series.....	50	PMDPB70XP.....	121	PMEG1020EH (-Q).....	68	PMEG3010EXE (-Q).....	66	PMEG4050ETP (-Q).....	67
PLVA600A series.....	52	PMDPB70XP.....	126	PMEG1020EJ (-Q).....	68	PMEG3015EH (-Q).....	68	PMEG6002EJ (-Q).....	64
PMBD353 PMBD354 ¹⁾	63	PMDPB70XPE.....	121	PMEG1030EH (-Q).....	68	PMEG3015EJ (-Q).....	68	PMEG6002ELD (-Q).....	68
PMB53904 (-Q).....	25	PMDPB70XPE.....	126	PMEG1030EJ (-Q).....	68	PMEG3020BEP (-Q).....	66	PMEG6002EL (-Q).....	64
PMB53906 (-Q).....	25	PMDPB80XP.....	121	PMEG2002AESF.....	64	PMEG3020BER (-Q).....	66	PMEG6010AESB.....	64
PMBT2222AM (-Q).....	25	PMDPB80XP.....	126	PMEG2002ESF.....	64	PMEG3020CEP (-Q).....	66	PMEG6010CEGW (-Q).....	68
PMBT2222A (-Q).....	25	PMDPB85UPE.....	121	PMEG2005AELD (-Q).....	64	PMEG3020CER (-Q).....	66	PMEG6010CEH (-Q).....	68
PMBT2222AQA (-Q).....	25	PMDPB85UPE.....	126	PMEG2005AEL (-Q).....	64	PMEG3020CPA (-Q).....	69	PMEG6010CEJ (-Q).....	68
PMBT2222AYS (-Q).....	25	PMDPB95XNE2.....	121	PMEG2005AESF.....	64	PMEG3020CPAS (-Q).....	69	PMEG6010CPA (-Q).....	69
PMBT2222 (-Q).....	25	PMDPB95XNE2.....	126	PMEG2005BELD (-Q).....	64	PMEG3020DEP (-Q).....	66	PMEG6010CPAS (-Q).....	69
PMBT2222AYS-Q	25	PMDXB290UE.....	126	PMEG2005CT (-Q).....	69	PMEG3020EGW (-Q).....	68	PMEG6010ELR (-Q).....	66
PMBT2369 (-Q).....	25	PMDXB290UE.....	119	PMEG2005EGW (-Q).....	68	PMEG3020EH (-Q).....	68	PMEG6010ELR (-Q).....	66
PMBT2907AM (-Q).....	25	PMDXB550UNE.....	119	PMEG2005EH (-Q).....	68	PMEG3020EJ (-Q).....	68	PMEG6010ER (-Q).....	66
PMBT2907A (-Q).....	25	PMDXB550UNE.....	126	PMEG2005EJ (-Q).....	68	PMEG3020EPA (-Q).....	64	PMEG6010ESB.....	64
PMBT2907AQA (-Q).....	25	PMDXB590UPE.....	119	PMEG2005ELD (-Q).....	64	PMEG3020EPAS (-Q).....	64	PMEG6010ETP (-Q).....	66
PMBT2907AYS (-Q).....	25	PMDXB590UPE.....	126	PMEG2005EL (-Q).....	64	PMEG3020EP (-Q).....	66	PMEG6010EXD (-Q)	66
PMBT2907 (-Q).....	25	PMDXB600UNE.....	119	PMEG2005EPK (-Q).....	64	PMEG3020ER (-Q).....	66	PMEG6010EXE (-Q).....	66
PMBT3904M (-Q).....	25	PMDXB600UNE.....	126	PMEG2005ESF.....	64	PMEG3020EXD (-Q)	66	PMEG6020AELP (-Q).....	66
PMBT3904 (-Q).....	25	PMDXB950UPE.....	126	PMEG2005ET (-Q).....	68	PMEG3020EXE (-Q).....	66	PMEG6020AELR (-Q).....	66
PMBT3904QA (-Q).....	25	PMDXB1200UPE.....	126	PMEG2010AEB (-Q).....	68	PMEG3030BEP (-Q).....	66	PMEG6020CER (-Q).....	66
PMBT3904RA (-Q).....	25	PMEG030V030EPE (-Q).....	66	PMEG2010AEH (-Q).....	68	PMEG3030CEP (-Q)	66	PMEG6020CEP (-Q).....	66
PMBT3904YS (-Q).....	25	PMEG030V050EPE (-Q).....	67	PMEG2010AEJ (-Q).....	68	PMEG3030CER (-Q).....	66	PMEG6020EPA (-Q).....	64
PMBT3906M (-Q).....	25	PMEG40T10ER (-Q) ¹⁾	66	PMEG2010AET (-Q).....	68	PMEG3030EP (-Q).....	66	PMEG6020EPAS (-Q).....	64
PMBT3906YS (-Q).....	25	PMEG40T20EP (-Q) ¹⁾	66	PMEG2010BELD (-Q).....	64	PMEG3030EXE (-Q).....	66	PMEG6020EPK (-Q).....	66
PMBT3906 (-Q).....	25	PMEG40T20ER (-Q) ¹⁾	66	PMEG2010BER (-Q).....	66	PMEG3050BEP (-Q).....	67	PMEG6020ER (-Q).....	66
PMBT3906YS (-Q).....	25	PMEG40T30EP (-Q) ¹⁾	66	PMEG2010EH (-Q).....	68	PMEG3050CEP (-Q)	67	PMEG6020ETP (-Q).....	66
PMBT3946YPN (-Q).....	25	PMEG40T30EP (-Q) ¹⁾	66	PMEG2010EJ (-Q).....	68	PMEG3050EP (-Q).....	67	PMEG6020ETP (-Q).....	66
PMBT4401 (-Q).....	25	PMEG40T50EP (-Q) ¹⁾	67	PMEG2010EPA (-Q).....	64	PMEG4002AESF.....	64	PMEG6020EXD (-Q)	66
PMBT4401YS (-Q).....	25	PMEG40V030EPE (-Q).....	66	PMEG2010EPAS (-Q).....	64	PMEG4002EJ.....	68	PMEG6020EXE (-Q).....	66
PMBT4403 (-Q).....	25	PMEG40V050EPE (-Q).....	67	PMEG2010EPK (-Q).....	64	PMEG4002ELD (-Q).....	64	PMEG6030AEXE (-Q).....	67
PMBT4403YS (-Q).....	25	PMEG45T10EXD (-Q) ¹⁾	66	PMEG2010ER (-Q).....	66	PMEG4002EL (-Q).....	64	PMEG6030CELP (-Q)	67
PMBT5550 (-Q).....	27	PMEG45T15EPD ¹⁾	67	PMEG2010ET (-Q).....	68	PMEG4002ESF.....	64	PMEG6030CEP (-Q)	67
PMBT5551 (-Q) / BSR19A(-Q).....	27	PMEG45T20EXD (-Q) ¹⁾	66	PMEG2010EXD (-Q)	66	PMEG4005AESF.....	64	PMEG6030CER (-Q).....	67
PMBT6428.....	22	PMEG40T30EPD ¹⁾	67	PMEG2015EA (-Q).....	68	PMEG4005CEJ.....	68	PMEG6030ELP (-Q).....	67
PMBT6429.....	22	PMEG40T5050EPD ¹⁾	67	PMEG2015EA (-Q).....	68	PMEG4005CT (-Q).....	69	PMEG6030EP (-Q).....	67
PMBTA06 (-Q).....	22	PMEG40T5100EPE (-Q) ¹⁾	67	PMEG2015EH (-Q).....	68	PMEG4005EGW (-Q).....	68	PMEG6030ETP (-Q).....	67
PMBTA06 (-Q).....	23	PMEG40T5150EIPD ¹⁾	67	PMEG2015EJ (-Q).....	68	PMEG4005EH (-Q).....	68	PMEG6030EVP (-Q).....	67
PMBTA13 (-Q).....	29	PMEG40T5150EPD ¹⁾	67	PMEG2015EPK (-Q).....	64	PMEG4005EJ (-Q).....	68	PMEG6030EXE (-Q).....	67
PMBTA14.....	29	PMEG40V050EPE (-Q).....	67	PMEG2020AEA (-Q).....	68	PMEG4005EPK (-Q).....	64	PMEG6045ETP (-Q).....	67
PMBTA42D5 (-Q).....	27	PMEG40V100EPE (-Q).....	67	PMEG2020AEA (-Q).....	68	PMEG4005ESF.....	64	PMEG6050CEP (-Q)	67
PMBTA42.....	27	PMEG40V100EPE (-Q).....	67	PMEG2020CER (-Q).....	66	PMEG4005ET (-Q).....	68	PMEG6050ELP (-Q)	67
PMBTA42 (-Q).....	27	PMEG40V150EPE (-Q).....	67	PMEG2020CPA (-Q).....	69	PMEG4010AESB.....	64	PMEG10010ELR (-Q).....	66
PMBTA44 (-Q).....	27	PMEG050T150EIPD ¹⁾	67	PMEG2020CPAS (-Q).....	69	PMEG4010BEA (-Q).....	68	PMEG10010ELXE (-Q).....	66
PMBTA45 (-Q).....	38	PMEG050T150EPD ¹⁾	67	PMEG2020EH (-Q).....	68	PMEG4010BEA (-Q).....	68	PMEG10020AELP (-Q).....	66
PMBTA64.....	29	PMEG050V030EPE (-Q).....	67	PMEG2020EJ (-Q).....	68	PMEG4010CEA.....	68	PMEG10020AELR (-Q).....	66
PMBTA92(-Q).....	27	PMEG050V150EPE (-Q).....	67	PMEG2020EPA (-Q).....	64	PMEG4010CEA (-Q).....	68	PMEG10020ELR (-Q).....	66
PMCA14UN.....	121	PMEG60T10ELP (-Q) ¹⁾	66	PMEG2020EPAS (-Q).....	64	PMEG4010CEGW (-Q).....	68	PMEG10020ELXE (-Q).....	66
PMCB60XN.....	121	PMEG60T10ELR (-Q) ¹⁾	66	PMEG2020EPK (-Q).....	64	PMEG4010CEH (-Q).....	68	PMEG10030CELP (-Q)	67
PMCB60XNE.....	121	PMEG60T10ELXD (-Q) ¹⁾	66	PMEG2020EXD (-Q)	66	PMEG4010CEJ (-Q).....	68	PMEG10030ELP (-Q).....	67
PMCM4401UNE.....	121	PMEG60T20ELP (-Q) ¹⁾	66	PMEG2020CER (-Q).....	66	PMEG4010CPA (-Q).....	69	PMEG10050ELP (-Q)	67
PMCM4401UPE.....	121	PMEG60T20ELR (-Q) ¹⁾	66	PMEG3001EEF.....	64	PMEG4010CPAS (-Q).....	69	PMF63UNE.....	123
PMCM4401VPE.....	210	PMEG60T20ELXD (-Q) ¹⁾	66	PMEG3002AELD (-Q).....	64	PMEG4010EGW (-Q).....	68	PMF170XP.....	125
PMCM4401VNE.....	121	PMEG60T30ELPE (-Q) ¹⁾	67	PMEG3002AEL (-Q).....	64	PMEG4010EH (-Q).....	68	PMF250XNE.....	123
PMCM4401VNE.....	210	PMEG60T30ELP (-Q) ¹⁾	67	PMEG3002AESF.....	64	PMEG4010EJ (-Q).....	68	PMG85XP.....	125
PMCM4401VPE.....	121	PMEG60T30ELR (-Q) ¹⁾	67	PMEG3002EEF.....	64	PMEG4010EPK (-Q).....	64	PMGD175XNE.....	126
PMCM4401VPE.....	210	PMEG060T040CLPE (-Q) ¹⁾	67	PMEG3002EJ (-Q).....	68	PMEG4010EP (-Q).....	66	PMGD290UCEA.....	108
PMCM4402UPE.....	121	PMEG060T050ELPE (-Q) ¹⁾	67	PMEG3002ESF.....	64	PMEG4010ER (-Q).....	66	PMH260UNE.....	118
PMCM6501UNE.....	121	PMEG60T50ELP (-Q) ¹⁾	67	PMEG3005AESF.....	64	PMEG4010ESB.....	64	PMH400UNE.....	118
PMCM6501VNE.....	121	PMEG060T060CLPE (-Q) ¹⁾	67	PMEG3005CT (-Q).....	69	PMEG4010ETP (-Q).....	66	PMH550UNE.....	118
PMCM6501VNE.....	210	PMEG060T080CLPE (-Q) ¹⁾	67	PMEG3005EEF.....	64	PMEG4010ET (-Q).....	68	PMH550UPE.....	118
PMCM6501VPE.....	121	PMEG060T100CLPE (-Q) ¹⁾	67	PMEG3005EGW (-Q).....	68	PMEG4010ETR (-Q).....	66	PMH600UNE.....	118

Types in **bold red** are in development, types in **bold** represent new products

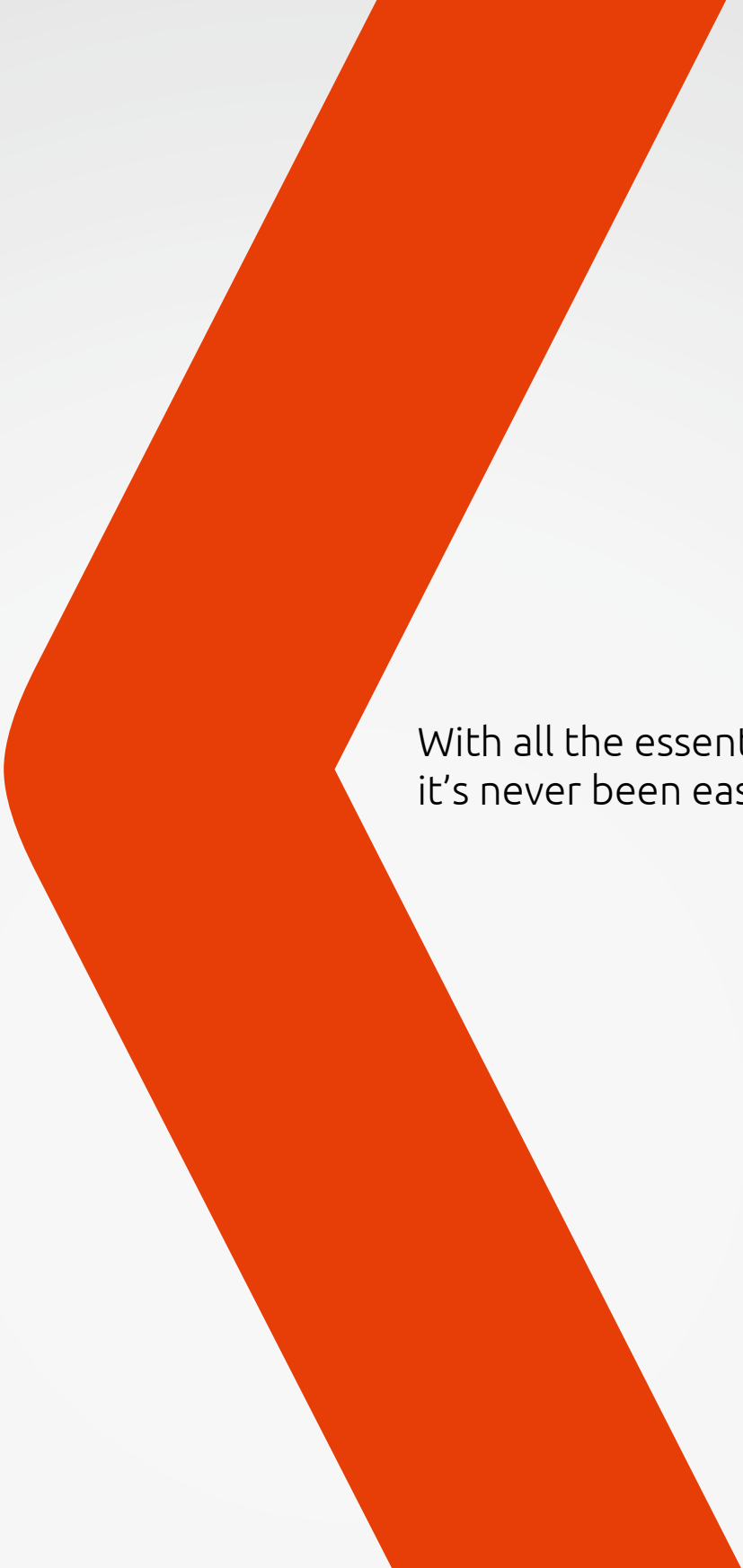
Type number	Page Number	Type number	Page Number	Type number	Page Number	Type number	Page Number	Type number	Page Number
PMH850UPE.....	118	PMPB14XN.....	120	PMV35EPE.....	125	PNE20020EXD (-Q).....	59	PSMN1R1-100CSE	114
PMH950UPE.....	118	PMPB14XP.....	120	PMV37EN2.....	123	PNE20030EP (-Q).....	59	PSMN1R2-25YL.....	110
PMH1200UPE.....	118	PMPB15XN.....	120	PMV37ENEA.....	107	PNE20040CPE (-Q).....	59	PSMN1R2-25YLC.....	110
PMMT491A.....	33	PMPB15XP.....	120	PMV40UN2.....	123	PNE20040EPE (-Q).....	59	PSMN1R2-25YLD.....	110
PMMT591A.....	35	PMPB15XPA.....	107	PMV42ENE.....	123	PNE20040EP (-Q).....	59	PSMN1R2-30YLC.....	110
PMN16XNE.....	123	PMPB16EP.....	120	PMV45EN2.....	123	PNE20050EP (-Q).....	59	PSMN1R2-30YLD.....	110
PMN20ENA.....	107	PMPB16R5XNE.....	120	PMV48XP.....	125	PNE20060CPE (-Q).....	59	PSMN1R2-55SLH.....	112
PMN20ENA.....	123	PMPB17EP.....	120	PMV48XPA.....	107	PNE20060EPE (-Q).....	59	PSMN1R2-80ASE	114
PMN25ENE.....	123	PMPB19R0UPE.....	120	PMV48XPA2.....	107	PNE20080CPE (-Q).....	59	PSMN1R2-80CSE	114
PMN25ENE.....	107	PMPB19XP.....	120	PMV50EPEA.....	107	PNE20080EPE (-Q).....	59	PSMN1R3-30YL.....	110
PMN28UNE.....	123	PMPB20EN.....	120	PMV50UPE.....	125	PNE200100CPE (-Q).....	59	PSMN1R3-80SSF	116
PMN30ENE.....	107	PMPB20XNEA.....	107	PMV50XNEA.....	107	PNE200100EPE (-Q).....	59	PSMN1R3-100ASF	114
PMN30ENE.....	123	PMPB20XNEA.....	120	PMV50XNEA.....	123	PNE650100EJ (-Q)	59	PSMN1R4-30YLD.....	110
PMN30UN.....	123	PMPB20XPE.....	120	PMV50XP.....	125	PNE650150EJ (-Q)	59	PSMN1R4-40YLD.....	112
PMN30UNE.....	123	PMPB20XPEA.....	107	PMV52ENE.....	123	PNE650200EJ (-Q)	59	PSMN1R4-100ASE	114
PMN30XP.....	125	PMPB23XNE.....	120	PMV52ENEA.....	107	PNS40010AER (-Q)	59	PSMN1R4-100CSE	114
PMN30XPA.....	107	PMPB25ENE.....	120	PMV60ENEA.....	107	PNE65010EP (-Q).....	59	PSMN1R4-100CSF	114
PMN30XPE.....	125	PMPB27EPA.....	107	PMV60ENEA.....	123	PNU65010ER (-Q).....	59	PSMN1R5-25MLH.....	111
PMN30XPEA.....	107	PMPB29XNE.....	120	PMV65UNE.....	123	PNU65020EP (-Q).....	59	PSMN1R5-30BLE.....	110
PMN40ENA.....	107	PMPB29XNEA.....	107	PMV65UNE.....	107	PNE65030EP (-Q).....	59	PSMN1R5-30YL.....	110
PMN40ENA.....	123	PMPB29XPE.....	120	PMV65XP.....	125	PNU650100EJ (-Q)	59	PSMN1R5-30YLC.....	110
PMN40ENE.....	123	PMPB29XPEA.....	107	PMV65XPE.....	125	PNU650150AEJ (-Q)	59	PSMN1R5-40YSD.....	112
PMN40SNA.....	107	PMPB30XPE.....	120	PMV65XPEA.....	107	PNU650150EJ (-Q)	59	PSMN1R5-50YLD.....	112
PMN40XPEA.....	107	PMPB33XN.....	120	PMV74EPE.....	125	PNU650200AEJ (-Q)	59	PSMN1R6-25YLE.....	110
PMN42XPEA.....	107	PMPB33XP.....	120	PMV75UP.....	125	PNU650200EJ (-Q)	59	PSMN1R6-30MLH.....	111
PMN48XP.....	125	PMPB43XPEA.....	107	PMV88ENE.....	123	PNU650300AEJ (-Q)	59	PSMN1R7-25YLD.....	110
PMN48XPA.....	107	PMPB47XP.....	120	PMV88ENEA.....	107	PQMB11.....	42	PSMN1R7-30YL.....	110
PMN48XPA2.....	107	PMPB48EP.....	120	PMV90ENE.....	123	PQMD2.....	42	PSMN1R7-40YLB	112
PMN50EPE.....	125	PMPB50ENE.....	120	PMV100EPA.....	107	PQMD3.....	42	PSMN1R7-40YLD.....	112
PMN52XP.....	125	PMPB55ENEA.....	120	PMV100XPEA.....	107	PQMD10.....	42	PSMN1R7-60BS.....	112
PMN55ENE.....	123	PMPB85ENEA.....	120	PMV100XPEA.....	125	PQMD12.....	42	PSMN1R8-30MLH.....	111
PMN55ENEA.....	107	PMPB95ENEA.....	120	PMV130ENEA.....	107	PQMD13.....	42	PSMN1R8-40YLC.....	112
PMN70EPE.....	125	PMPB100ENE.....	120	PMV130ENEA.....	123	PQMD16.....	42	PSMN1R8-80SSF	116
PMN70XP.....	125	PMPB215ENEA.....	120	PMV160UP.....	125	PQMH2.....	42	PSMN1R9-40YSB	112
PMN100EPA.....	107	PMS5390A.....	25	PMV164ENE.....	123	PQM9.....	42	PSMN1R9-40YSD.....	112
PMN120ENEA.....	107	PMS53906.....	25	PMV164ENEA.....	107	PQM10.....	42	PSMN1R9-80SSE	116
PMN230ENE.....	123	PMST2222A (-Q).....	25	PMV240SP.....	125	PQM11.....	42	PSMN1R9-80SSJ	116
PMN230ENEA.....	107	PMST2222 (-Q).....	25	PMV250EPEA.....	107	PQM13.....	42	PSMN2R0-25MLD.....	111
PMN280ENEA.....	107	PMST2369 (-Q).....	25	PMV250EPEA.....	125	PRMB11.....	42	PSMN2R0-25YLD.....	110
PMN280ENEA.....	123	PMST2907A (-Q).....	25	PMV280ENEA.....	107	PRMD2.....	42	PSMN2R0-30YL.....	110
PMP3906AYS-Q	30	PMST3904 (-Q).....	25	PMV280ENEA.....	123	PRMD3.....	42	PSMN2R0-30YLD.....	110
PMP4201G.....	30	PMST3906 (-Q).....	25	PMV450ENEA.....	107	PRMD10.....	42	PSMN2R0-30YLE.....	110
PMP4201Y.....	30	PMST4401 (-Q).....	25	PMV450ENEA.....	123	PRMD12.....	42	PSMN2R0-40YLB	112
PMP4501G.....	30	PMST4403 (-Q).....	25	PMX100UN.....	118	PRMD13.....	42	PSMN2R0-40YLD.....	112
PMP4501QAS.....	30	PMST5088.....	22	PMX100UNE.....	118	PRMD16.....	42	PSMN2R0-55YLH.....	112
PMP4501Y.....	30	PMST5089.....	22	PMX300UNE.....	118	PRMH2.....	42	PSMN2R0-100SSF	116
PMP5201G.....	30	PMST5550 (-Q).....	27	PMX400UP.....	118	PRMH9.....	42	PSMN2R1-30YLE.....	110
PMP5201Y.....	30	PMST5551 (-Q).....	27	PMX400UPE.....	118	PRMH10.....	42	PSMN2R2-30YLC.....	110
PMP5501G.....	30	PMST6428.....	22	PMX700EN.....	118	PRMH11.....	42	PSMN2R2-40BS.....	112
PMP5501QAS.....	30	PMST6429.....	22	PMX800ENE.....	118	PRMH13.....	42	PSMN2R2-40YSB	112
PMP5501Y.....	30	PMSTA05 (-Q).....	22	PMX800UPE.....	118	PRT5V0U2AX.....	82	PSMN2R2-40YSD.....	112
PMPB4R6UN.....	120	PMSTA06 (-Q).....	22	PMXB40UNE.....	119	PRT5V0U2F.....	82	PSMN2R3-80SSF	116
PMPB05RA4EN.....	120	PMSTA06 (-Q).....	23	PMXB43UNE.....	119	PRT5V0U2X.....	82	PSMN2R3-100SSE	116
PMPB06R2EN.....	120	PMSTA42 (-Q).....	27	PMXB56EN.....	119	PRT5V0U4D.....	82	PSMN2R3-100SSJ	116
PMPB06R3XN.....	120	PMSTA55 (-Q).....	23	PMXB65ENE.....	119	PSC0665K	61	PSMN2R4-30MLD.....	111
PMPB07R0UN.....	120	PMSTA92 (-Q).....	27	PMXB65UPE.....	119	PSC1065H.....	61	PSMN2R4-30YLD.....	110
PMPB07R3EN.....	120	PMV13XNEA.....	107	PMXB75UPE.....	119	PSC1065H-Q	61	PSMN2R5-30YL.....	110
PMPB07R3VP.....	120	PMV13XNEA.....	123	PMXB812EPE.....	119	PSC1065K.....	61	PSMN2R5-40YLB	112
PMPB07R3XN.....	120	PMV15ENE.....	123	PMXB350UPE.....	119	PSC1665J	61	PSMN2R5-40YLD.....	112
PMPB08R4VP.....	120	PMV15ENEA.....	107	PMXB360ENEA.....	119	PSC1665L	61	PSMN2R5-80SSE	116
PMPB08R5XN.....	120	PMV15UNE.....	107	PMZ130UNE.....	118	PSC2065J	61	PSMN2R6-30YLC.....	110
PMPB08R6EN.....	120	PMV15UNE.....	123	PMZ200UNE.....	118	PSC2065L	61	PSMN2R6-80YSF	114
PMPB8XN.....	120	PMV16XN.....	123	PMZ290UNE2.....	118	PSMN0R7-25YLD.....	110	PSMN2R6-100SSF	116
PMPB09R1XN.....	120	PMV19XNEA.....	107	PMZ320UPE.....	118	PSMN0R9-25YLD.....	110	PSMN2R7-30BL.....	110
PMPB09R5VP.....	120	PMV20EN.....	123	PMZ350UPE.....	118	PSMN0R9-30ULD.....	111	PSMN2R8-25MLC.....	111
PMPB10EN.....	120	PMV20XNE.....	123	PMZ390UNE.....	118	PSMN0R9-30YLD.....	110	PSMN2R8-40BS.....	112
PMPB10R3XN.....	120	PMV20XNEA.....	107	PMZ550UNE.....	118	PSMN1R0-25YLD.....	110	PSMN2R8-40YSB	112
PMPB10XN.....	120	PMV20XNEA.....	123	PMZ600UNE.....	118	PSMN1R0-30YLC.....	110	PSMN2R8-40YSD.....	112
PMPB10XNE.....	120	PMV27UPE.....	125	PMZ950UPE.....	118	PSMN1R0-30YLD.....	110	PSMN2R8-80BS.....	114
PMPB10XNEA.....	107	PMV27UPEA.....	107	PMZ1200UPE.....	118	PSMN1R0-30YLE.....	110	PSMN2R8-80SSF	116
PMPB11EN.....	120	PMV28ENE.....	123	PMZB150UNE.....	118	PSMN1R0-40SSH.....	112	PSMN2R9-25YLC.....	110
PMPB11R2VP.....	120	PMV28ENEA.....	107	PMZB200UNE.....	118	PSMN1R0-40ULD.....	113	PSMN2R9-100SSE	116
PMPB12R5EP.....	120	PMV28UNE.....	107	PMZB290UNE2.....	118	PSMN1R0-40YLD.....	112	PSMN3R0-30MLC.....	111
PMPB12R5UPE.....	120	PMV28UNE.....	123	PMZB320UPE.....	118	PSMN1R0-40YSH.....	112	PSMN3R0-30YL.....	110
PMPB12R7EP.....	120	PMV28XPEA.....	107	PMZB350UPE.....	118	PSMN1R0-80CSE	114	PSMN3R0-30YLD.....	110
PMPB12UNE.....	120	PMV30ENEA.....	107	PMZB390UNE.....	118	PSMN1R0-100ASE	114	PSMN3R0-60BS.....	112
PMPB12UNEA.....	107	PMV30ENEA.....	123	PMZB550UNE.....	118	PSMN1R0-100ASF	114	PSMN3R2-40YLB	112
PMPB13R6XN.....	120	PMV30ENEA.....	123	PMZB600UNE.....	118	PSMN1R0-100CSF	114	PSMN3R2-40YLD.....	112
PMPB13UP.....	120	PMV30UN2.....	123	PMZB950UPE.....	118	PSMN1R1-25YLC.....	110	PSMN3R3-40MLH.....	113
PMPB13XNE.....	120	PMV30XPA.....	107	PMZB1200UPE.....	118	PSMN1R1-30YLE.....	110	PSMN3R3-40MSH.....	113
PMPB13XNEA.....	107	PMV30XPEA.....	107	PNE20010ER (-Q).....	59	PSMN1R1-40BS.....	112	PSMN3R3-80BS.....	114
PMPB14R0EP.....	120	PMV30XPEA.....	125	PNE20010EXD (-Q).....	59	PSMN1R1-60YSF	112	PSMN3R3-80YSF	115
PMPB14R7EP.....	120	PMV32UP.....	125	PNE20020EP (-Q).....	59	PSMN1R1-80ASF	114	PSMN3R3-100SSF	116
PMPB14R8XN.....	120	PMV33UPE.....	125	PNE20020ER (-Q).....	59	PSMN1R1-80CSF	114	PSMN3R4-30BL.....	110

Types in **bold red** are in development, types in **bold** represent new products

Type number	Page Number	Type number	Page Number	Type number	Page Number	Type number	Page Number	Type number	Page Number
PSMN3R4-30BLE	110	PSMN010-80YL	115	PTVS3V3D1BAL	84	PTVS14VP1UP(-Q)	91	PTVS43VP1UP(-Q)	91
PSMN3R5-25MLD	111	PSMN011-30YLC	111	PTVS3V3D1BAL	88	PTVS14VP1UTP(-Q)	91	PTVS43VP1UTP(-Q)	91
PSMN3R5-30YL	110	PSMN011-60HL	113	PTVS3V3P1UP(-Q)	91	PTVS14VS1UR(-Q)	90	PTVS43VS1UR(-Q)	90
PSMN3R5-40YSB	112	PSMN011-60ML	113	PTVS3V3P1UTP(-Q)	91	PTVS14VS1UTR(-Q)	90	PTVS43VS1UTR(-Q)	90
PSMN3R5-40YSD	112	PSMN011-60MS	113	PTVS3V3S1UR(-Q)	90	PTVS15VP1BPL	92	PTVS45VP1BPL	92
PSMN3R5-80YSF	114	PSMN011-80YS	115	PTVS3V3S1UTR(-Q)	90	PTVS15VP1UP(-Q)	91	PTVS45VP1UP(-Q)	91
PSMN3R7-100BSE	114	PSMN011-100YSF	115	PTVS3V3Z1BSC	88	PTVS15VP1UTP(-Q)	91	PTVS45VP1UTP(-Q)	91
PSMN3R8-100BS	114	PSMN012-60HL	113	PTVS4V5D1BL	77	PTVS15VS1UR(-Q)	90	PTVS45VS1UR(-Q)	90
PSMN3R9-25MLC	111	PSMN012-60YS	112	PTVS4V5D1BL	84	PTVS15VS1UTR(-Q)	90	PTVS45VS1UTR(-Q)	90
PSMN3R9-100YSF	114	PSMN012-80BS	114	PTVS4V5D1BL	88	PTVS15VU1UPA	88	PTVS48VP1BPL	92
PSMN4R0-25YLC	110	PSMN012-100YL	115	PTVS4V8Z1UPC	88	PTVS15VZ1USK	89	PTVS48VP1UP(-Q)	91
PSMN4R0-30YL	110	PSMN012-100YS	115	PTVS5V0D1UCL	88	PTVS16VP1BPL	92	PTVS48VP1UTP(-Q)	91
PSMN4R0-30YLD	110	PSMN012-100YSF	115	PTVS5V0P1UP(-Q)	91	PTVS16VP1UP(-Q)	91	PTVS48VS1UR(-Q)	90
PSMN4R0-40YS	112	PSMN013-30MLC	111	PTVS5V0P1UTP(-Q)	91	PTVS16VP1UTP(-Q)	91	PTVS48VS1UTR(-Q)	90
PSMN4R0-60YS	112	PSMN013-30YLC	111	PTVS5V0S1UR(-Q)	90	PTVS16VS1UR(-Q)	90	PTVS51VP1BPL	92
PSMN4R1-30YLC	110	PSMN013-40VLD	113	PTVS5V0S1UTR(-Q)	90	PTVS16VS1UTR(-Q)	90	PTVS51VP1UP(-Q)	91
PSMN4R1-60YL	112	PSMN013-60HL	113	PTVS5V0Z1BSC	88	PTVS17VP1BPL	92	PTVS51VP1UTP(-Q)	91
PSMN4R2-30MLD	111	PSMN013-60HS	113	PTVS5V0Z1UCL	88	PTVS17VP1UP(-Q)	91	PTVS51VS1UR(-Q)	90
PSMN4R2-40VSH	113	PSMN013-60YL	112	PTVS5V0Z1UPC	88	PTVS17VP1UTP(-Q)	91	PTVS51VS1UTR(-Q)	90
PSMN4R2-80YSF	114	PSMN013-80YS	115	PTVS5V0Z1USK	89	PTVS17VS1UR(-Q)	90	PTVS54VP1BPL	92
PSMN4R3-30BL	110	PSMN013-100BS	114	PTVS5V0Z1USKP	89	PTVS17VS1UTR(-Q)	90	PTVS54VP1UP(-Q)	91
PSMN4R3-40MLH	113	PSMN013-100YSE	115	PTVS5V5D1BL	77	PTVS18VP1BPL	92	PTVS54VP1UTP(-Q)	91
PSMN4R3-40MSH	113	PSMN014-40HLD	113	PTVS5V5D1BL	85	PTVS18VP1UP(-Q)	91	PTVS54VS1UR(-Q)	90
PSMN4R4-30MLC	111	PSMN014-40YS	112	PTVS5V5D1BL	88	PTVS18VP1UTP(-Q)	91	PTVS54VS1UTR(-Q)	90
PSMN4R4-80BS	114	PSMN014-60HS	113	PTVS5V5Z1UPC	88	PTVS18VS1UR(-Q)	90	PTVS58VP1BPL	92
PSMN4R5-30YLC	110	PSMN014-80YL	115	PTVS6V0P1UP(-Q)	91	PTVS18VS1UTR(-Q)	90	PTVS58VP1UP(-Q)	91
PSMN4R5-40BS	112	PSMN015-60BS	112	PTVS6V0P1UTP(-Q)	91	PTVS18VU1UPA	88	PTVS58VP1UTP(-Q)	91
PSMN4R5-80YSF	115	PSMN015-100YL	115	PTVS6V0S1UR(-Q)	90	PTVS18VZ1USK	89	PTVS58VS1UR(-Q)	90
PSMN4R6-60BS	112	PSMN015-100YSF	115	PTVS6V0S1UTR(-Q)	90	PTVS20VD1UL	88	PTVS58VS1UTR(-Q)	90
PSMN4R8-100BSE	114	PSMN016-100BS	114	PTVS6V3D1UCL	88	PTVS20VP1BPL	92	PTVS60VP1BPL	92
PSMN4R8-100YSE	114	PSMN016-100YS	115	PTVS6V3Z1UCL	88	PTVS20VP1UP(-Q)	91	PTVS60VP1UP(-Q)	91
PSMN5R0-30YL	110	PSMN017-60YS	112	PTVS6V3Z1UPC	88	PTVS20VP1UTP(-Q)	91	PTVS60VP1UTP(-Q)	91
PSMN5R0-40MLH	113	PSMN017-80BS	114	PTVS6V5P1UP(-Q)	91	PTVS20VS1UR(-Q)	90	PTVS60VS1UR(-Q)	90
PSMN5R0-40MSH	113	PSMN018-80YS	115	PTVS6V5P1UTP(-Q)	91	PTVS20VS1UTR(-Q)	90	PTVS60VS1UTR(-Q)	90
PSMN5R0-80BS	114	PSMN019-100YL	115	PTVS6V5S1UR(-Q)	90	PTVS20VU1UPA	88	PTVS64VP1BPL	92
PSMN5R2-60YL	112	PSMN020-30MLC	111	PTVS6V5S1UTR(-Q)	90	PTVS20VZ1USK	89	PTVS64VP1UP(-Q)	91
PSMN5R3-25MLD	111	PSMN020-100YS	115	PTVS7V0P1UP(-Q)	91	PTVS22VP1BPL	92	PTVS64VP1UTP(-Q)	91
PSMN5R4-25YLD	110	PSMN021-100YL	115	PTVS7V0P1UTP(-Q)	91	PTVS22VP1UP(-Q)	91	PTVS64VS1UR(-Q)	90
PSMN5R5-60YS	112	PSMN025-80YL	115	PTVS7V0S1UR(-Q)	90	PTVS22VP1UTP(-Q)	91	PTVS64VS1UTR(-Q)	90
PSMN5R5-100YSF	115	PSMN025-100HS	115	PTVS7V0S1UTR(-Q)	90	PTVS22VS1UR(-Q)	90	PTVS70VP1BPL	92
PSMN5R6-60YL	112	PSMN026-80YS	115	PTVS7V0S1UTP(-Q)	91	PTVS22VS1UTR(-Q)	90	PTVS75VP1BPL	92
PSMN5R6-100BS	114	PSMN027-100BS	114	PTVS7V5P1UP(-Q)	91	PTVS22VU1UPA	88	PTVS78VP1BPL	92
PSMN5R8-40YS	112	PSMN028-100HS	115	PTVS7V5S1UR(-Q)	90	PTVS22VZ1USK	89	PTVS85VP1BPL	92
PSMN5R9-25YLB	110	PSMN028-100YS	115	PTVS7V5S1UTR(-Q)	90	PTVS24VP1BPL	92	PTVS90VP1BPL	92
PSMN6R0-25YLD	110	PSMN029-100HL	115	PTVS7V5U1UPA	88	PTVS24VP1UP(-Q)	91	PTVS100VP1BPL	92
PSMN6R0-30YL	110	PSMN030-60YS	112	PTVS7V5Z1USK	89	PTVS24VP1UTP(-Q)	91	PTVS110VP1BPL	92
PSMN6R0-30YLB	110	PSMN033-100HL	115	PTVS8V0P1UP(-Q)	91	PTVS24VS1UR(-Q)	90	PTVS120VP1BPL	92
PSMN6R0-30YLD	110	PSMN034-100BS	114	PTVS8V0P1UTP(-Q)	91	PTVS24VS1UTR(-Q)	90	PTVS130VP1BPL	92
PSMN6R1-25MLD	111	PSMN038-100HS	115	PTVS8V0S1UR(-Q)	90	PTVS24VU1UPA	88	PTVS150VP1BPL	92
PSMN6R1-30YLD	110	PSMN038-100YL	115	PTVS8V0S1UTR(-Q)	90	PTVS24VZ1UPA	88	PTVS160VP1BPL	92
PSMN6R4-30MLD	111	PSMN039-100YS	115	PTVS8V5P1UP(-Q)	91	PTVS26VP1BPL	92	PUMB1 (-Q)	42
PSMN6R5-80BS	114	PSMN040-100MSE	115	PTVS8V5P1UTP(-Q)	91	PTVS26VP1UP(-Q)	91	PUMB2 (-Q)	42
PSMN6R7-40MLD	113	PSMN041-80YL	115	PTVS8V5S1UR(-Q)	90	PTVS26VP1UTP(-Q)	91	PUMB3H-Q	26
PSMN6R7-40MSD	113	PSMN045-80YS	115	PTVS8V5S1UTR(-Q)	90	PTVS26VS1UR(-Q)	90	PUMB3 (-Q)	42
PSMN6R8-40HS	113	PSMN045-100HL	115	PTVS9V0P1BPL	92	PTVS26VS1UTR(-Q)	90	PUMB4 (-Q)	42
PSMN7R0-30MLC	111	PSMN047-100NSE	116	PTVS9V0P1UP(-Q)	91	PTVS26VU1UPA	88	PUMB10	42
PSMN7R0-30YL	111	PSMN057-200B	114	PTVS9V0P1UTP(-Q)	91	PTVS26VZ1USK	89	PUMB11 (-Q)	42
PSMN7R0-30YLC	111	PSMN059-150Y	115	PTVS9V0S1UR(-Q)	90	PTVS28VP1BPL	92	PUMB13 (-Q)	42
PSMN7R0-60YS	112	PSMN069-100YS	115	PTVS9V0S1UTR(-Q)	90	PTVS28VP1UP(-Q)	91	PUMB14	42
PSMN7R0-100BS	114	PSMN071-100NSE	116	PTVS10VP1BPL	92	PTVS28VP1UTP(-Q)	91	PUMB15	42
PSMN7R2-100YSF	115	PSMN075-100MSE	115	PTVS10VP1UP(-Q)	91	PTVS28VS1UR(-Q)	90	PUMB16	42
PSMN7R5-30MLD	111	PSMN102-200Y	115	PTVS10VP1UTP(-Q)	91	PTVS28VS1UTR(-Q)	90	PUMB17 (-Q)	42
PSMN7R5-30YLD	111	PSMNR51-25YLH	110	PTVS10VS1UR(-Q)	90	PTVS30VP1BPL	92	PUMB18	42
PSMN7R5-60YL	112	PSMNR55-40SSH	112	PTVS10VS1UTR(-Q)	90	PTVS30VP1UP(-Q)	91	PUMB19 (-Q)	42
PSMN7R6-60BS	112	PSMNR56-25YLE	110	PTVS10VU1UPA	88	PTVS30VP1UTP(-Q)	91	PUMB20	42
PSMN7R6-100BSE	114	PSMNR58-30YLH	110	PTVS10VZ1USK	89	PTVS30VS1UR(-Q)	90	PUMB24	42
PSMN8R0-40BS	112	PSMNR60-25YLH	110	PTVS11VP1BPL	92	PTVS30VS1UTR(-Q)	90	PUMB30	42
PSMN8R0-40HL	113	PSMNR67-30YLE	110	PTVS11VP1UP(-Q)	91	PTVS30VZ1UPA	88	PUMB02 (-Q)	42
PSMN8R2-80YS	115	PSMNR70-30YLH	110	PTVS11VP1UTP(-Q)	91	PTVS33VP1BPL	92	PUMB03 (-Q)	42
PSMN8R3-40YS	112	PSMNR70-40SSH	112	PTVS11VS1UR(-Q)	90	PTVS33VP1UP(-Q)	91	PUMB04 (-Q)	42
PSMN8R5-40HS	113	PSMNR70-40YSN	112	PTVS11VS1UTR(-Q)	90	PTVS33VP1UTP(-Q)	91	PUMB06H-Q	26
PSMN8R5-40MLD	113	PSMNR82-30YLE	110	PTVS12VP1BPL	92	PTVS33VS1UR(-Q)	90	PUMB06 (-Q)	42
PSMN8R5-40MSD	113	PSMNR89-25YLE	110	PTVS12VP1UP(-Q)	91	PTVS33VS1UTR(-Q)	90	PUMB09 (-Q)	42
PSMN8R5-60YS	112	PSMNR90-30BL	110	PTVS12VP1UTP(-Q)	91	PTVS36VP1BPL	92	PUMB09 (-Q)	42
PSMN8R7-80BS	114	PSMNR90-40YLH	112	PTVS12VS1UR(-Q)	90	PTVS36VP1UP(-Q)	91	PUMB10 (-Q)	42
PSMN8R7-100YSF	115	PSMNR90-40YSN	112	PTVS12VS1UTR(-Q)	90	PTVS36VP1UTP(-Q)	91	PUMB12 (-Q)	42
PSMN8R9-100BSE	114	PSMNR90-50SLH	112	PTVS12VU1UPA	88	PTVS36VS1UR(-Q)	90	PUMB13 (-Q)	42
PSMN9R0-25MLC	111	PSMNR90-80ASE	114	PTVS12VZ1USK	89	PTVS36VS1UTR(-Q)	90	PUMB14	42
PSMN9R1-30YL	111	PSMNR90-80ASF	114	PTVS13VP1BPL	92	PTVS40VP1BPL	92	PUMB15 (-Q)	42
PSMN9R3-60HS	113	PSMNR90-80CSF	114	PTVS13VP1UP(-Q)	91	PTVS40VP1UP(-Q)	91	PUMB16 (-Q)	42
PSMN9R5-30YLC	111	PSMNR98-25YLE	110	PTVS13VP1UTP(-Q)	91	PTVS40VP1UTP(-Q)	91	PUMB17 (-Q)	42
PSMN9R5-100BS	114	PSMP033-60YE	117	PTVS13VS1UR(-Q)	90	PTVS40VS1UR(-Q)	90	PUMB18 (-Q)	42
PSMN9R8-30MLC	111	PSMP061-60YE	117	PTVS13VS1UTR(-Q)	90	PTVS40VS1UTR(-Q)	90	PUMB19	42
PSMN9R8-100YSF	115	PSI2021SAY	28	PTVS14VP1BPL	92	PTVS43VP1BPL	92	PUMB20 (-Q)	42

Types in **bold red** are in development, types in **bold** represent new products

Type number	Page Number	Type number	Page Number	Type number	Page Number
PUMD24 (-Q).....	42	PXP3R7-12QU.....	117	TLVH431NIDBZR (-Q).....	44
PUMD30.....	42	PXP6R1-30QL.....	117	TLVH431NMQDBZR (-Q).....	44
PUMD48 (-Q).....	42	PXP6R7-30QL.....	117	TLVH431NQDBZR (-Q).....	44
PUMH1 (-Q).....	42	PXP8R3-20QX.....	117	TO-247-3.....	133
PUMH2 (-Q).....	42	PXP9R1-30QL.....	117	TO-247-4.....	133
PUMH4 (-Q).....	42	PXP011-20QX.....	117	TO-263-7.....	132
PUMH7H-Q	26	PXP012-30QL.....	117	TO-263-7.....	133
PUMH7 (-Q).....	42	PXP013-30QL.....	117	XC7SET02.....	176
PUMH9 (-Q).....	42	PXP015-30QL.....	117	XC7SET04.....	170
PUMH10 (-Q).....	42	PXP018-20QX.....	117	XC7SET08.....	173
PUMH11 (-Q).....	42	PXP020-20QX.....	117	XC7SET14.....	170
PUMH13 (-Q).....	42	PXP400-100QS.....	117	XC7SET14.....	181
PUMH14 (-Q).....	42	PXP700-150QS	117	XC7SET32.....	175
PUMH15 (-Q).....	42	PXP1500-100QS.....	117	XC7SET86.....	177
PUMH16 (-Q).....	42	PXT2222A.....	25	XC7SET125.....	170
PUMH17.....	42	PXT2907A.....	25	XC7SH02.....	176
PUMH18 (-Q).....	42	PXT4401.....	25	XC7SH04.....	170
PUMH19.....	42	PXT4403.....	25	XC7SH08.....	173
PUMH20 (-Q).....	42	PXTA14.....	29	XC7SH14.....	170
PUMH24 (-Q).....	42	PXTA42 (-Q).....	27	XC7SH14.....	181
PUMH30 (-Q).....	42	PXTA92 (-Q).....	27	XC7SH32.....	175
PUMT1 (-Q).....	24	PZT2222A.....	25	XC7SH86.....	177
PUMX1 (-Q).....	24	PZT2907A.....	25	XC7SH125.....	170
PUMX2 (-Q).....	24	PZT4401.....	25	XC7SHU04.....	170
PUMZ1 (-Q).....	24	PZT4403.....	25	XC7WH14.....	170
PUMZ2 (-Q).....	24	PZTA14 (-Q).....	29	XC7WH14.....	181
PUSB3AB4.....	82	PZTA42 (-Q).....	27	XC7WH126.....	170
PUSB3AB6.....	82	PZTA44(-Q).....	27	XC7WT14.....	170
PUSB3BB2DF.....	82	PZTA92 (-Q).....	27	XC7WT14.....	181
PUSB3BB4	82	PZU10DB2.....	51	X.PAK.....	132
PUSB3CB4	82	PZU10DB2 series.....	52	XS3A1T3157.....	193
PUSB3FC4.....	82	PZU84 (-Q).....	52	XS3A1T5157.....	193
PUSB3FR4.....	82	PZU84 (-Q).....	52	XS3A2467.....	193
PUSB3FR6.....	82	PZU84-Q series.....	50	XS3A4051.....	193
PUSB3FS4	82	PZU84 series.....	50	XS3A4052.....	193
PXN0R6-30RLA	111	PZU884LS (-Q).....	52	XS3A4053.....	193
PXN0R7-30RLA	111	PZU884LS (-Q).....	52	XS5A1T4157.....	193
PXN0R8-30RLA	111	PZU884LS-Q series.....	50	XS5A1T4157-Q100.....	163
PXN1R0-30RLA	111	PZUxBA (-Q) series.....	52		
PXN1R5-30RLA	111	PZUxBA (-Q) series.....	52		
PXN1R7-30QLA	111	PZUxBA-Q series.....	50		
PXN2R0-30RLA	111	PZUxBA series.....	50		
PXN2R3-30QLA	111	PZUxBL (-Q) series.....	52		
PXN2R8-100RL	116	PZUxBL-Q series.....	50		
PXN2R9-100RS	116	PZUxBL(-Q) series.....	52		
PXN3R0-30QLA	111	PZUxBL series.....	50		
PXN3R0-30RLA	111	PZUxB (-Q) series.....	52		
PXN4R0-30RLA	111	PZUxB (-Q) series.....	52		
PXN4R0-30RLA	111	PZUxB-Q series.....	50		
PXN4R1-60RLA	113	PZUxB series.....	50		
PXN4R7-30QL.....	111	QDPAK.....	132		
PXN5R0-30QLA	111	RB520CS30L (-Q).....	63		
PXN5R0-30RLA	111	RB520S30 (-Q).....	63		
PXN5R0-60RLA	113	RB521CS30L (-Q).....	63		
PXN5R4-30QL.....	111	RB521S30 (-Q).....	63		
PXN5R7-60QLA	113	RB530S40 (-Q).....	63		
PXN5R9-60RLA	113	RB751CS40(-Q).....	63		
PXN6R2-25QL.....	111	RB751S40(-Q).....	63		
PXN6R2-60QLA	113	RB751V40 (-Q).....	63		
PXN6R7-30QL.....	111	RB751V45 (-Q).....	63		
PXN6R8-60QLA	113	SZMM3Z series.....	50		
PXN7R0-30QLA	111	SZMM5Z series.....	50		
PXN7R0-30RLA	111	TDZxJ series.....	50		
PXN7R3-60RLA	113	TDZxJ series.....	53		
PXN7R7-25QL.....	111	TL431ACDBZR (-Q).....	44		
PXN7R7-60QLA	113	TL431AFDT (-Q).....	44		
PXN8R3-30QL.....	111	TL431AIDBZR (-Q).....	44		
PXN9R0-30QL.....	111	TL431AMFDT (-Q).....	44		
PXN9R0-30QLA	111	TL431AQDBZR (-Q).....	44		
PXN9R1-60QLA	113	TL431BCDBZR (-Q).....	44		
PXN010-30QL.....	111	TL431BFDT (-Q).....	44		
PXN011-30QLA	111	TL431BIDBZR (-Q).....	44		
PXN011-60QLA	113	TL431BMFDT (-Q).....	44		
PXN011-100QL	116	TL431BQDBZR (-Q).....	44		
PXN011-100QS	116	TL431CDBZR (-Q).....	44		
PXN012-60QL	113	TL431FDT (-Q).....	44		
PXN012-100QL	116	TL431IDBZR (-Q).....	44		
PXN012-100QS	116	TL431MFDT (-Q).....	44		
PXN014-60QLA	113	TL431QDBZR (-Q).....	44		
PXN017-30QL.....	111	TLVH431NACDBZR (-Q).....	44		
PXN018-30QL.....	111	TLVH431NAIDBZR (-Q).....	44		
PXN020-100QS	116	TLVH431NAMQDBZR (-Q).....	44		
PXN028-100QL	116	TLVH431NAQDBZR (-Q).....	44		
PXN040-100QS	116	TLVH431NCDBZR (-Q).....	44		



With all the essentials in one handy guide,
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