

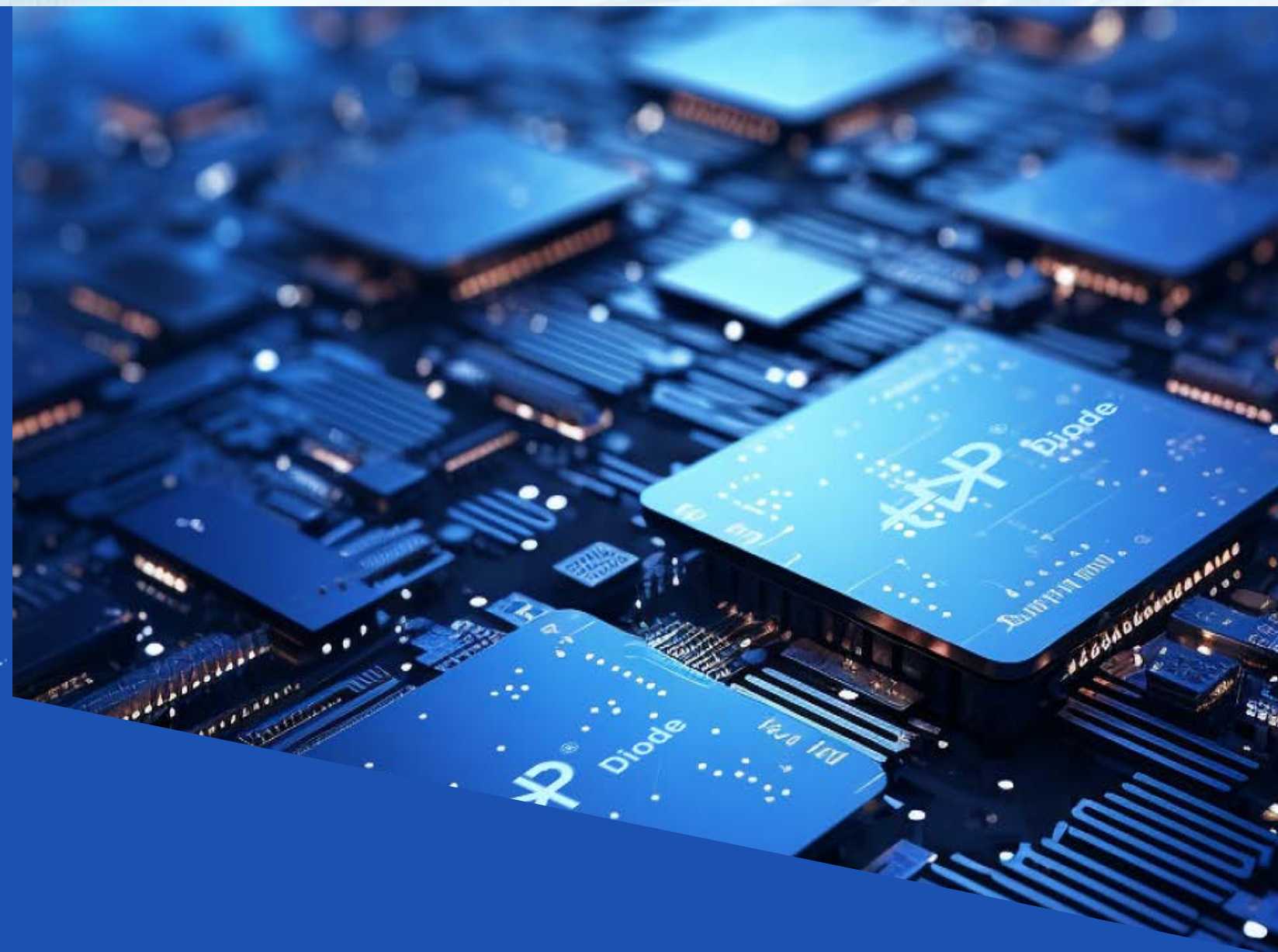
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TOPDIODE GROUP SINCE 1995



Your Reliable Components Partner

- ISO 9001 Certified & Automotive AEC-Q101
- MOSFET / IGBT / Driver IC / Audio IC / Transistor

 Tel: +86 769 8252 3211
 E-mail: info@topdiode.com
 WhatsApp: +86 137 1207 3035
 Website: www.topdiodes.com

 Skype: topdiode
 LinkedIn: topdiode
 Facebook: topdiode
 WeChat: +86 137 1207 3035



Topdiode is a reputable high-technology enterprise specializing in designing, producing, and marketing semiconductor power devices and integrated circuits (ICs).

Our wide range of products, include MOSFETs, IGBTs, transistors, drive ICs, and audio ICs, which are used in various industries such as automotive, solar energy, 5G telecommunications, industrial electronics, white goods, lighting, security, and consumer electronics.

Topdiode has competitive prices and shorter lead times compared to other US and Japanese IC brands. Topdiode services are designed to meet the needs of customers seeking cost savings with faster project timelines.

Advantages of Selecting Topdiode as your trusted semiconductor supplier.



Investment in R&D

Topdiode's commitment to continuous improvement is reflected in our increased investment in research and development. This approach helps us stay competitive and aligned with the ever-evolving market trends.



Professional Team

Topdiode boasts a professional engineering and marketing team. Their research and development department comprise of technical experts from Taiwan, Silicon Valley U.S.A, and mainland China. This diverse team has contributed to Topdiode securing 15 patents in the semiconductor field, highlighting their commitment to innovation.



Alternative Solutions

Topdiode's sales team is well-trained to assist companies in finding alternative semiconductor solutions to replace products from other well-known manufacturers like Infineon, AOS, Microchip, Texas Instruments (TI), ON Semiconductor, and TRINNO. This flexibility in offering alternative devices can be valuable for customers seeking cost-effective or more readily available components.



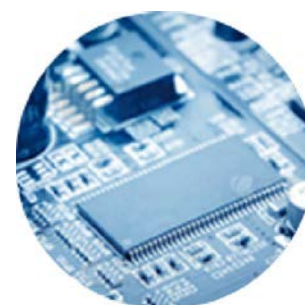
Efficiency and Reliability

Topdiode emphasizes the high efficiency and excellent reliability of our power semiconductors. This can be crucial for customers looking to reduce costs and address long-lead time challenges in the manufacturing of their projects.



Experience

With over 20 years of experience in the semiconductor industry, Topdiode has a strong foundation and a deep understanding of market trends and customer requirements.



Product Range

Topdiode offers a diverse portfolio of semiconductor products, which can be used in a variety of applications. This range allows customers to find suitable components for their specific needs.

Customer Testimonial

How is Topdiode's sales support rated by customers? What feedback has been received regarding Topdiode's sales support ?

Axxxxx, one of the UK's top 5 distributors of electronic components, provided the following statement about Topdiode after conducting a factory audit.

Additionally, there are positive comments from other valued customers.



Brain
UK Top 5 distributor, Axxxxx

★★★★★

We have been trading with Topdiode for many years under private label OEM agreement. In that time we have not experienced any quality issues and haven't had any problems with service or reliability. I have no hesitation in recommending Topdiode as a supplier for MLCC caps along with any other products they manufacture.



Anuj
India distributor VXXX

★★★★★

We are discussing many products and after talking to lots of customers. And we find out when it comes to Topdiode products, end customer is comfortable to place order directly & without testing.



Greg
UK customer EXXX Electronics

★★★★★

One of the things I appreciate most about Topdiode is their customer service. Their team is always responsive to my inquiries, and they go the extra mile to help me find the right products for my needs. They are also very knowledgeable about their products, and they are always happy to answer any questions I have.



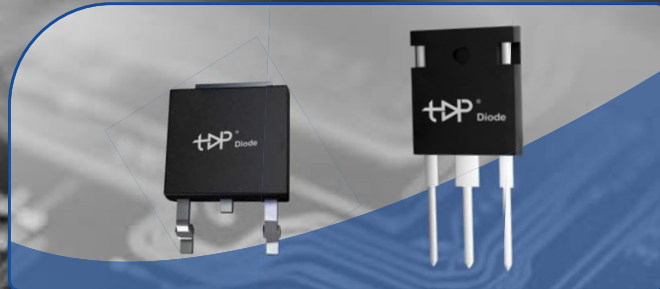
Julia
Russia distributor

★★★★★

We have been cooperating with the Topdiode company for several years. Over the years, they have established themselves as a reliable manufacturer of quality components. Very responsive, friendly professionals. Working with them is a great pleasure!

Our Customers





SiC Diode

Part No.	Description	IFSM(A)	IF(AV)	Vds	VF(typ.)	QC(typ.)	Package	Cross to (not limited)	
								Brands	P / N #
TPDA10S65C1P	SIC SBD	65A	10A@158°C	650V	1.36V	25nC	TO-220-2	Infineon	IDH10SG60C
TPDA10S65C1P	SIC SBD	65A	10A@158°C	650V	1.36V	25nC	TO-220-2	ST	STPSC10065D
TPDA15S65C1P	SIC SBD	100A	15A@155°C	650V	1.38V	41nC	TO-220-2	Infineon	IDH16G65C6
TPDA15S65C1P	SIC SBD	100A	15A@155°C	650V	1.38V	41nC	TO-220-2	Littelfuse	LSIC2SD065A16A
TPDB20A65C1P	SIC SBD	65A	20A@158°C	650V	1.36V	25nC	TO-220-3	FUJI	FDCP20C65
TPDD20A120C1P	SIC SBD	100A	20A@164°C	1200V	1.34V	61.4nC	TO-247-3	Infineon	IDW20G120C5B
TPDD20A120C1P	SIC SBD	100A	20A@164°C	1200V	1.34V	61.4nC	TO-247-3	On Semi	FFSH20120ADN-F155
TPDD20A120C1P	SIC SBD	100A	20A@164°C	1200V	1.34V	61.4nC	TO-247-3	ST	STPSC20H12C
TPDD20A65C1P	SIC SBD	65A	20A@155°C	650V	1.36V	25nC	TO-247-3	Infineon	IDW20G65C5B
TPDD20A65C1P	SIC SBD	65A	20A@155°C	650V	1.36V	25nC	TO-247-3	On Semi	FFSH2065ADN-F155
TPDD20A65C1P	SIC SBD	65A	20A@155°C	650V	1.36V	25nC	TO-247-3	Littelfuse	LFUSCD20065B
TPDD30A65C1P	SIC SBD	100A	30A@155°C	650V	1.36V	41nC	TO-247-3	On Semi	FFSH3065ADN-F155
TPDD30A65C1P	SIC SBD	100A	30A@155°C	650V	1.36V	41nC	TO-247-3	Infineon	IDW32G65C5B
TPDD40A120C1P	SIC SBD	190A	40A@155°C	1200V	1.33V	131nC	TO-247-3	On Semi	FFSH40120ADN-F155
TPDD40A120C1P	SIC SBD	190A	40A@155°C	1200V	1.33V	131nC	TO-247-3	ST	STPSC40H12C
TPDD40A120C1P	SIC SBD	190A	40A@155°C	1200V	1.33V	131nC	TO-247-3	Infineon	IDW40G120C5B
TPDG10S65C1P	SIC SBD	65A	10A@148°C	650V	1.36V	25nC	TO-252	Infineon	IDK10G65C5
TPDG10S65C1P	SIC SBD	65A	10A@148°C	650V	1.36V	25nC	TO-252	On Semi	FFSD1065B
TPDG10S65C1P	SIC SBD	65A	10A@148°C	650V	1.36V	25nC	TO-252	ST	STPSC10H065G-TR
TPDG15S65C1P	SIC SBD	100A	15A@149°C	650V	1.36V	41nC	TO-263	Infineon	AIDK16S65C5
TPDG20A65C1P	SIC SBD	65A	20A@148°C	650V	1.36V	25nC	TO-263	On Semi	FFSB2065BDN-F085
TPDG5S65C1P	SIC SBD	33A	5A@157°C	650V	1.40V	16.2nC	TO-263	Infineon	IDK05G65C5
TPDH10S120C1P	SIC SBD	100A	10A@164°C	1200V	1.34V	61.4nC	TO-247-2	On Semi	FFSH10120A
TPDH10S150C1P	SIC SBD	80A	10A@155°C	1500V	1.50V	80nC	TO-247-2	ST	STPSC10H12WL
TPDH10S170C1P	SIC SBD	85A	10A@158°C	1700V	1.45V	88.4nC	TO-247-2	Littelfuse	LSIC2SD170B10
TPDH20S120C1P	SIC SBD	190A	20A@159°C	1200V	1.33V	131nC	TO-247-2	On Semi	FFSH20120A-F085
TPDH20S120C1P	SIC SBD	190A	20A@159°C	1200V	1.33V	131nC	TO-247-2	Infineon	IDWD20G120C5
TPDH40S120C1P	SIC SBD	250A	40A@143°C	1200V	1.50V	190nC	TO-247-2	Infineon	IDWD40G120C5
TPDH40S65C 1P	SIC SBD	230A	40A@153°C	650V	1.46V	99nC	TO-247-2	On Semi	FFSH4065A



Driver IC

Topdiode PN	Description	Operating Voltage	Input signal	Deadtime	Ton / Toff (ns)	IO + / IO-	Package	Cross to (not limited)	
								Brands	P / N #
TPG2104	H-bridge Drive(N+N)	700V	IN,SD	520ns	650ns/130ns	300A/600A	SOIC8	Infineon	IRS2104
TPG2136	H-bridge Drive(N+N)	700V	HIN1,2,3	290ns	500ns/500ns	0.45A/0.7A	SOP28	Infineon	IRS2136
TPG2183	H-bridge Drive(N+N)	700V	HIN,LIN	400ns	130ns/130ns	4A/4A	SOIC8	Infineon	IRS2183S
TPG2101	H-bridge Drive(N+N)	700V	HIN,LIN	-	130ns/130ns	300/ 600	SOIC8	Infineon	IRS2101
TPG2101	H-bridge Drive(N+N)	700V	HIN,LIN	-	130ns/130ns	300/600	SOIC8	TI	UCC27710
TPG2101	H-bridge Drive(N+N)	700V	HIN,LIN	-	130ns/130ns	300/600	SOIC8	On-semi	FAN7382
TPG2103	H-bridge Drive(N+N)	700V	HIN,LIN	520ns	650ns/130ns	300/600	SOIC8	Infineon	IRS2103
TPG2113	H-bridge Drive(N+N)	700V	HIN,LIN	-	130ns/130ns	4A/4A	SOIC16(W)	Infineon	IRS2113
TPG2113	H-bridge Drive(N+N)	700V	HIN,LIN	-	130ns/130ns	4A/4A	SOIC16(W)	Infineon	IR2110
TPG2113	H-bridge Drive(N+N)	700V	HIN,LIN	-	130ns/130ns	4A/4A	SOIC16(W)	On-semi	FAN7392
TPG2186	H-bridge Drive(N+N)	700V	HIN,LIN	-	130ns/130ns	4A/4A	SOIC8	Infineon	IRS2181
TPG2186	H-bridge Drive(N+N)	700V	HIN,LIN	-	130ns/130ns	4A/4A	SOIC8	Infineon	IRS2186
TPG2186	H-bridge Drive(N+N)	700V	HIN,LIN	-	130ns/130ns	4A/4A	SOIC8	On-semi	FAN7390
TPG2186	H-bridge Drive(N+N)	700V	HIN,LIN	-	130ns/130ns	4A/4A	SOIC8	On-semi	FAN73901
TPG27511	Low-side Drive	25V	Anti-phase	-	15ns/15ns	4A/4A	SOT23-6	TI	UCC27511
TPG27517	Low-side Drive	25V	Anti-phase	-	30ns/30ns	4A/4A	SOT23-5	TI	UCC27517
TPG27517	Low-side Drive	25V	Anti-phase	-	30ns/30ns	4A/4A	SOT23-5	On-semi	FAN3100T
TPG27324	Low-side Drive	25V	Same Logic	-	25ns/25ns	4A/4A	SOIC8	TI	UCC27324
TPG27324	Low-side Drive	25V	Same Logic	-	25ns/25ns	4A/4A	SOIC8	IXYS	IX4424
TPG27324	Low-side Drive	25V	Same Logic	-	25ns/25ns	4A/4A	SOIC8	IXYS	IXDI504
TPG27324	Low-side Drive	25V	Same Logic	-	25ns/25ns	4A/4A	SOIC8	Microchip	TC4424
TPG27524	Low-side Drive	25V	Same Logic	-	25ns/25ns	4A/4A	SOIC8	TI	UCC27524
TPG27524	Low-side Drive	25V	Same Logic	-	25ns/25ns	4A/4A	SOIC8	On-semi	FAN3224
TPG2127	High-side Drive	250V	Same Logic	-	150ns/150ns	0.3A/0.6A	SOIC8	Infineon	IR2127
TPG21271	High-side Drive	250V	Same Logic	-	150ns/150ns	0.3A/0.6A	SOIC8	Infineon	IR21271

Audio IC

Series	Topdiode PN	Description	Class	Output Polarity	Operating Voltage	PD	IO + / IO-	Package	Cross to (not limited)	
									Brands	P / N #
Audio Amplifier IC	TPA2092	Audio ic	Class D	OP input	250V	1W	2A/2A	SOIC16(S)	Infineon	IRS2092
	TPA20957	Audio ic	Class D	Single Input,IN	250V	1W	2A/2A	SOIC16(S)	Infineon	IRS20957
	TPA2093	Audio ic	Class D	OP input	215V	1W	2A/2A	MLPQ48	Infineon	IRS2093

Transistor

Part No.	Package	Cross to Brand	Cross to P / N	Topdiode PN	Package	Cross to Brand	Cross to P / N
BC8456DE	SOT-563	Nexperia	BC847BVN	MMBT8050D/8550D	SOT-23	SEMTECH	MMBT8050D/8550D
MPSA42U	SOT-89	Diodes	DXTA42	BC817~BC818	SOT-23	Nexperia	BC817~BC818
MMBT2222A	SOT-23	Diodes	MMBT2222A	BC846~BC850	SOT-23	On-Semi	BC846~BC850
MMBT2907	SOT-23	On-Semi	MMBT2907	BC846W~BC850W	SOT-323	Nexperia	BC846W~BC850W
MMBT3904/3906	SOT-23	Diodes	MMBT3904/3906	BC856W~BC860W	SOT-323	Nexperia	BC856W~BC860W

IGBT

Part No.	Description	VCE	IC	VCE(SAT) IC=15A	Package	Cross to (not limited)	
						Brands	P / N #
TP80TD60BT	IGBT	600V	80A	1.70V	TO-247	ST	STGW80V60DF
TP07TD60BF	IGBT	600V	7A	1.70V	TO-247	ST	STGF7NB60SL
TP10TD60B	IGBT	600V	10A	1.70V	TO-220	ST	STGP10NC60HD
TP030N065WED	IGBT	650V	30A	1.75V	TO-247	TRINNO	TGP30N60FDRS
TP040K065WED	IGBT	650V	40A	1.70V	TO-247	TRINNO	TGAN4060F2DS
TP060U060EQ	IGBT	600V	60A	1.90V	TO-247	AOS	AOK60B60D1
TPS20N60T	IGBT	600V	20A	1.70V	TO-247	Infineon	IRG4PC40UD
TPS20N60T	IGBT	600V	20A	1.70V	TO-247	ST	STGW20H60DF
TPS20N60T	IGBT	600V	20A	1.70V	TO-247	On semi	FGH20N60SFD
TPS40N60T	IGBT	600V	40A	1.75V	TO-247	Infineon	IRGP4640D
TPS40N60T	IGBT	600V	40A	1.75V	TO-247	ST	STGW40V60DF
TPS40N60T	IGBT	600V	40A	1.75V	TO-247	On semi	FGH40N60SFD
TPGP15N65LN	IGBT	650V	15A	1.65V	TO-220-3	Infineon	IRGB4615D
TPGP15N65LN	IGBT	650V	15A	1.65V	TO-220-3	AOS	AOTF15B60D2
TPGW15N120LN	IGBT	1200V	15A	1.85V	TO-247-3	Infineon	IKW15N120H3
TPGW25N120LN	IGBT	1200V	25A	1.85V	TO-247-3	Infineon	IKW25N120H3
TPGW40N65LN	IGBT	650V	40A	1.55V	TO-247-3	Infineon	IKW40N65H5
TPGW40N65LN	IGBT	650V	40A	1.55V	TO-247-3	AOS	AOK40B65H2AL
TPGW40N120LN	IGBT	1200V	40A	1.90V	TO-247-3	Infineon	IKW40N120H3
TPGW40N120LN	IGBT	1200V	40A	1.90V	TO-247-3	On semi	FGH40T120SMD
TPGW50N65NS	IGBT	650V	50A	1.58V	TO-247-3	Infineon	IKW50N65H5
TPGW75N65NS	IGBT	650V	75A	1.61V	TO-247-3	AOS	AOK75B60D1
TPGW75N65XN	IGBT	650V	75A	1.70V	TO-247-3	Infineon	IKW75N65EH5
TPGW75N65XN	IGBT	650V	75A	1.70V	TO-247-3	On semi	FGH75T65UPD

SiC MOSFET

Part No.	Description	Vds	ID(A)	VGS(V)	Max. Rdon	Ciss (pF)	Coss(pF)	QG(nC)	Package	Cross to (not limited)	
										Brands	P / N #
TPMW280N120C1P	SiC Mos Single-N	1200V	14A	-5/+20	330mΩ	442pF	22pF	31.3nC	TO-247-3	ROHM	SCT2280KE
TPMW160N120C1P	SiC Mos Single-N	1200V	32A	-5/+20	200mΩ	1029pF	69pF	55.9nC	TO-247-3	On Semi	NTHL160N120SC1
TPMW160N120C1P	SiC Mos Single-N	1200V	32A	-5/+20	200mΩ	1029pF	69pF	55.9nC	TO-247-3	ROHM	SCT2160KE
TPMW120N120C1P	SiC Mos Single-N	1200V	33A	-5/+20	140mΩ	995pF	68pF	56.6nC	TO-247-3	On Semi	NTHL160N120SC1
TPMW80N120C1P	SiC Mos Single-N	1200V	44A	-5/+20	100mΩ	1590pF	78.4pF	103nC	TO-247-3	On Semi	NTHL080N120SC1
TPMW80N120C1P	SiC Mos Single-N	1200V	44A	-5/+20	100mΩ	1590pF	78.4pF	103nC	TO-247-3	GREE	C2M0080120D
TPMW60N120C1P	SiC Mos Single-N	1200V	50A	-5/+20	80mΩ	1700pF	117pF	94.8nC	TO-247-3	Infineon	IMW120R060M1HXKSA1
TPMW60N120C1P	SiC Mos Single-N	1200V	50A	-5/+20	80mΩ	1700pF	117pF	94.8nC	TO-247-3	ROHM	SCT4062KE
TPMW40N120C1P	SiC Mos Single-N	1200V	56A	-5/+20	55mΩ	3120pF	144pF	196nC	TO-247-3	On Semi	NTHL040N120SC1
TPMW30N120C1P	SiC Mos Single-N	1200V	77A	-5/+20	50mΩ	3579pF	233pF	190nC	TO-247	ROHM	SCT3030KL
TPMW30N120C1P	SiC Mos Single-N	1200V	77A	-5/+20	50mΩ	3579pF	233pF	190nC	TO-247	GREE	C2M0040120D
TPMW30N120C1P	SiC Mos Single-N	1200V	77A	-5/+20	50mΩ	3579pF	233pF	190nC	TO-247	On Semi	NTHL022N120M3S

MOSFET
(Auto-Grade)

Part No.	Package Type	Config	Type	VDS (V)	VGS (V)	Vth (V)	RDS(ON) (mΩ) Max. at VGS=		ID (A)		AEC-Q101	Cross to brands
							10V	4.5V	Tc=25°C	Tc=100°C		
TP30H100KA-AU	TO-252	Single	N	30	±20	1-2.5	3.6/4.2	5/7	100	54	Yes	Infineon, ON, ST, AOS
TP5040-AU	SOT-23	Single	N	40	±20	1-2.2	30/40	40/60	5	3	Yes	Infineon, ON, ST, AOS
TP85N04K-AU	TO-252	Single	N	40	±20	1-2.2	5.0/5.9	7.5/10	65	41	Yes	Infineon, ON, ST, AOS
TP200N04D-AU	TO-263	Single	N	40	±20	1.0-2.2	2.4/2.8	3.2/4.0	160	112	Yes	Infineon, ON, ST, AOS
TP2K260-AU	SOT-23	Single	N	60	±20	1-2.5	1800/2200	2200/2600	0.3	0.2	Yes	Infineon, ON, ST, AOS
TP68N06G-AU	PDFN5X6	Single	N	60	±20	1-2.2	13.2/16	15.2/20	50	33	Yes	Infineon, ON, ST, AOS
TP6026D-AU	TO-263	Single	N	60	±20	1-3	26/35	-	25	17	Yes	Infineon, ON, ST, AOS
TPG011N04D-AU	TO-263	Single	N	40	±20	1-2.0	1.6/2.0	2.1/3.0	150	110	Yes	Infineon, ON, ST, AOS
TPG250N01G-AU	PDFN5X6	Single	N	100	±20	1.2-2.8	18-25	25-38	40	25	Yes	Infineon, ON, ST, AOS
TP15P04Q-AU	PDFN3X3	Single	P	-40	±20	1-2.2	27/33	34/42	15	10.5	Yes	Infineon, ON, ST, AOS
TP40P04Q-AU	PDFN3X3	Single	P	-40	±20	1-2.5	10/13	15/22	30	20	Yes	Infineon, ON, ST, AOS
TP40P04G-AU	PDFN5X6	Single	P	-40	±20	1-2.5	10/13	15/22	40	26	Yes	Infineon, ON, ST, AOS
TP40P04K-AU	TO-252	Single	P	-40	±20	1-2.5	10/13	15/22	40	26	Yes	Infineon, ON, ST, AOS
TP110P04D-AU	TO-263	Single	P	-40	±20	1-2.5	4.5/5.5	6.1/7.8	110	75	Yes	Infineon, ON, ST, AOS
TP120P04D-AU	TO-263	Single	P	-40	±20	1-2.5	3.2/2.9	4.2/3.6	120	110	Yes	Infineon, ON, ST, AOS
TP25P06Q-AU	PDFN3X3	Single	P	-60	±20	1-2	50/60	60/72	25	19	Yes	Infineon, ON, ST, AOS
TP25P06K-AU	TO-252	Single	P	-60	±20	1-2	52/60	64/80	25	19	Yes	Infineon, ON, ST, AOS
TP50N04QD-AU	PDFN3X3-D	Dual	N	40	±20	1-2.5	13/15	17/20	20	14	Yes	Infineon, ON, ST, AOS
TP50N04GD-AU	PDFN5X6-D	Dual	N	40	±20	1-2.5	13/15	17/20	30	20	Yes	Infineon, ON, ST, AOS
TPG180N01GD-AU	PDFN5X6-D	Dual	N+N	100	±20	1-2.5	15/18	20/24	25	17	Yes	Infineon, ON, ST, AOS

MOSFET
(Standard Series)

Part No.	Package Type	Config	Type	VDS (V)	VGS (V)	Vth (V)	RDS(ON) (mΩ) Max. at VGS=		ID (A) Tc=25°C	Cross to (not limited)	
							10V	4.5V		Brands	P / N
BSS84	SOT-23	Single	P	-50	±20	-0.9~-2	3.3/8	3.5/10	0.17	On semi/Diodes	BSS84
BSS123	SOT-23	Single	N	100	±20	1~2.8	3.5/6	3.8/10	0.17	Diodes/ROHM/NXP	BSS123
BSS138	SOT-23	Single	N	50	±20	0.8~1.6	1.1/2.5	1.2/3.0	0.34	On semi/Diodes	BSS138
TAP2302B	SOT-23	Single	N	20	±10	0.3-1	-	45/55	2.8	On semi	FDN327N
2N7002	SOT-23	Single	N	60	±20	1-2.5	1900/3000	2000/4000	0.45	On semi/TI	NDS7002A
TAP2305	SOT-23	Single	P	-20	±12	0.5-1	-	32/45	4.1	Diodes	DMP2305U-7
TP3401D	SOT-23	Single	P	-30	±12	0.7-1.2	52/60	60/70	4.2	AOS	AO3401
TP3407	SOT-23	Single	P	-30	±20	1-2.5	54/70	80/95	4.1	Vishay	SI3407
TP3400A	SOT23-3	Single	N	30	±12	0.4-1.5	18/26	23/32	-	On semi	NVTR4503N
TP3003	SOT23-6	Dual	N+P	30	±12	0.7-1.3	19/24	24/28	4.2	Diodes	DMG6602SVT-7
TP3003	SOT23-6	Dual	N+P	-30	±12	0.7-1.3	50/65	60/85	3.7	Diodes	DMG6602SVT-7
TP4409S	SOP-8	Single	P	-40	±20	1-2.5	12/14	17.5/20	12	Infineon	IRF7240TRPBF
TP4616	SOP-8	Dual	N+P	30	±20	1-3	10/13.5	18/21	9.8	Vishay	SI4532CDY
TP4616	SOP-8	Dual	N+P	-30	±20	1-3	17/21.5	24/32	7.6	Vishay	SI4532CDY
TP30H80Q	PDFN3X3	Single	N	30	±20	1-2.5	4.1/4.8	7.2/9.5	80	Vishay	SIS402DN
TP85N04Q	PDFN3X3	Single	N	40	±20	1-2.5	5.0/5.9	7.5/10	65	Vishay	SIS434DN