

Bruckewell Technology Corp

Product Catalogue

Bruckewell

Bruckewell Technology Corp., Ltd. | sales@bruckewell.com | www.bruckewell-semi.com

Schottky / STD/ Fast Diode, TVS/Zener/ ESD Products
MOSFETs/ Transistor
SiC Schottky Diode/ MOSFETs

Company Profile

Bruckewell technology corp. registered in Delaware, USA and total capital is 3million USD.

Began its business on semiconductor material electronic components in San Jose, California.

In 2008, semiconductor division founded in Taiwan for discrete semiconductor wafer design and our own branded products provide.

In 2009, Bruckewell Technology Corp., Ltd. registered in Taiwan

In 2014, Bruckewell Technology Europe office start to working in Heitersheim , Germany

Now, our semiconductor operation center is formally located in Taiwan and major products include Schottky diode/ rectifier, TVS/ ESD protection diode, small signal diode/ transistor and MOSFET...etc.

Bruckewell never ceased the research and development for new products. We are confident in providing the highest.

Mission and Vision

To satisfy customers while achieving sound growth with technological products of innovative design, superior quality. We commit ourselves to excellence, create the exceptional value for our customers and partners

LOGO Significance

Bruckewell comes from the German "Brücke", meaning "bridge" and English "well"

To become synonymous with technical innovation and timely marketing partner

The green leaf symbol reflects taking an active part in health & safety and protecting the environment as our responsibility

Quality Policy

Our goal is to exceed the quality expectations of our customers.

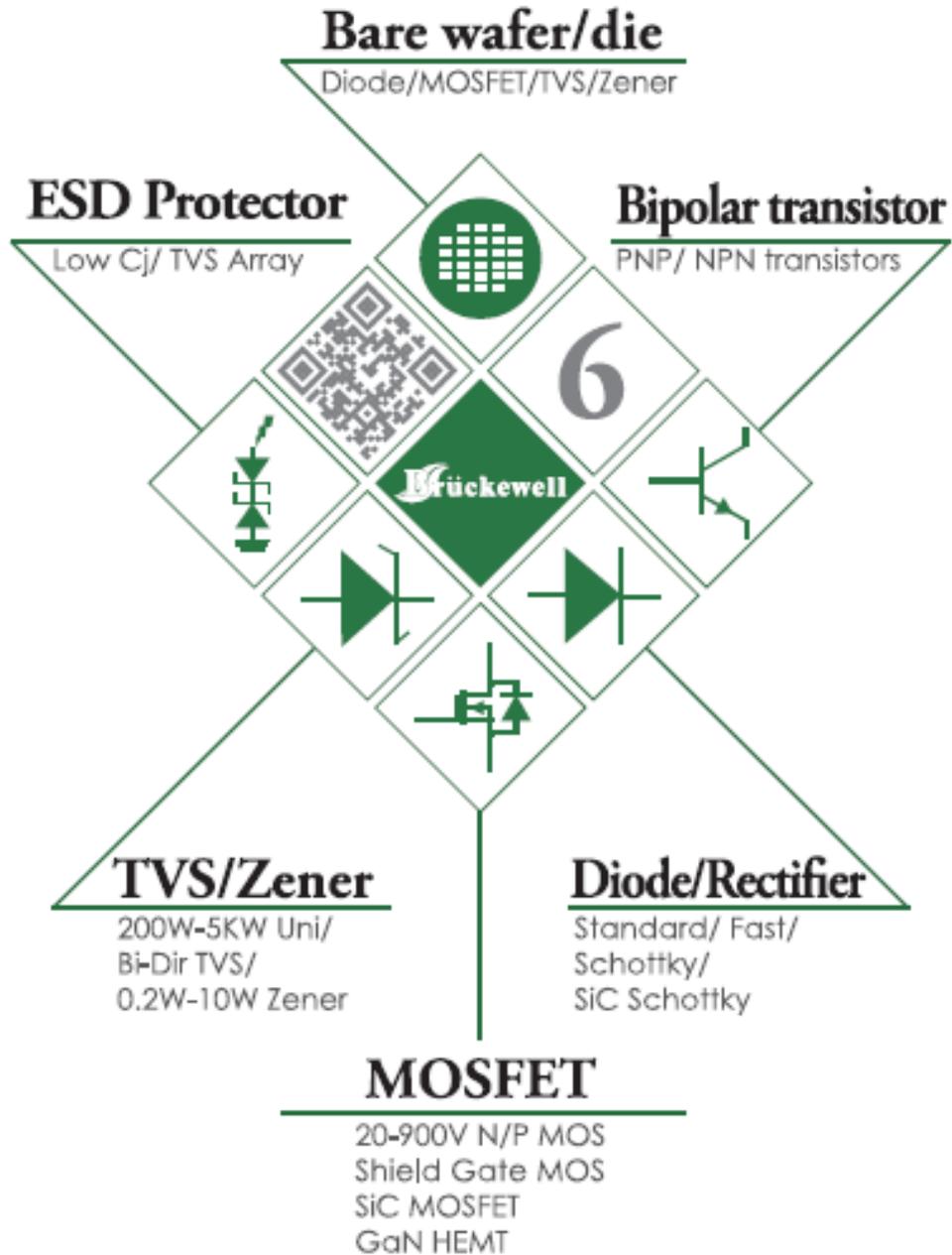
It is achieved through innovation, technical excellence and continuous improvement.



INDEX OF SYMBOLS

CJ	Junction capacitance	QGD.....	gate-drain charge
IF.....	DC forward current	R2JM	Thermal resistance (junction to mount)
IF(AV)	Average forward rectified current	S	Softness factor
ID	Stand-off reverse leakage current	TA	Ambient temperature
IFSM.....	Peak forward surge current	TC	Case temperature
IO	Main forward current	td	Time duration
IR	Reverse leakage current	tfr	Forward recovery time
IPPM	Maximum peak impulse current I	TJ	Junction temperature
RM(REC)...	Maximum peak reverse recovery current	TL	Lead temperature
IRSM	Maximum non-repetitive reverse peak current	TM	Mount temperature
IT.....	On-state test current	tr.....	Reverse recovery time
I2t.....	Rating for fusing	TS, TSTG ...	Storage temperature
PM(AV) ...	Maximum steady state power dissipation	VBR	Reverse breakdown voltage
PPM.....	Peak pulse power dissipation	VF.....	Instantaneous forward voltage
Ptot, PD....	Total power dissipation	VFP.....	Peak forward voltage
Qrr.....	Recovered charge	VDC, VR	DC reverse voltage
R2JA	Thermal resistance (junction to ambient)	VRMS	RMS input voltage
R2JC	Thermal resistance (junction to case)	VRRM	Peak repetitive reverse voltage
R2JL	Thermal resistance (junction to lead)	VRWM	Working peak reverse voltage
VC	Clamping voltage	IPPM	Maximum peak impulse current
VWM	Working stand-off voltage	IRSM ..	Maximum non-repetitive reverse peak current
VZ.....	Zener voltage	IT.....	On-state test current
ZZ.....	Dynamic Zener impedance	I2t.....	Rating for fusing
ZZK	Zener impedance at IZK	IZ.....	Zener current
ZZT	Zener impedance at IZT	IZT	Zener test current
VDS...drain-source voltage		IZM	Maximum Zener current
VGS...gate-source voltage		rzj	Dynamic series resistance
ID...drain current		Ciss.....	input capacitance
IDM...peak drain current		Coss.....	output capacitance
V(BR)DSS...drain-source breakdown voltage		Crss.....	reverse transfer capacitance
VGSth.....	gate-source threshold voltage	td(on).....	turn-on delay time
IDSS.....	drain leakage current	tr.....	rise time
IGSS.....	gate leakage current	td(off).....	turn-off delay time
RDSon.....	drain-source on-state resistance	tf.....	fall time
QG(tot).....	total gate charge	VSD.....	source-drain voltage
QGS.....	gate-source charge		

Discrete product list



ew Product

Transient voltage suppressors (TVS)

600W Series TVS Surface-Mount Flat SMA

SMAF series TVS devices offer a high surge capability to 600 W at 10/1000 μ s and 4 kW at 8/20 μ s, and excellent clamping capability



Applications

Consumer, computer, industrial, and telecommunication applications Typical end products include hard disks, hot swap computer and telecom cards, and slim LCD TVs and monitors

600W Surface-mount TVS in the SMA-Flat package are 30 % smaller than traditional SMB devices, the footprint compatible with SMAJ and offer 50 % higher surge capability at 10/1000 μ s. In addition, the SMAF series' low clamping voltages are 3 % to 5 % lower than current TVS devices in the SMB package. With their compact size, SMAF TVS are designed to protect sensitive electronics against voltage transients induced by inductive load switching and lightning in space-constrained consumer, computer, industrial, and telecommunication applications.

FEATURES

SMA-Flat DO-221AC package, Low profile of 1.0 mm

High surge capability, 600 W at 10/1000 μ s, 4 kW at 8/20 μ s

Low clamping voltages, Stand-off voltages from 6.5 V to 48 V

Temperature range from - 55 °C to + 175 °C

ESD capability of 15 kV (air) and 8 kV (contact) in accordance to IEC 61000-4-2 Level 4

Meet the MSL Level 1 standard, per -STD-020, LF maximum peak of 260 °C

Ideal for automated placement

		Competitor			Existing
Brand	Bruckewell	ST-Micro	Vishay	NXP	Industry
Part#	SMAF	SMA6F	SMA6F	PTVSxP1UP	SMBJXXA
VRM	6.5V thru 48V	5V, 12V, 13V	5V thru 20V	3.3 V thru 64V	5.0V thru 170V
Package	SMA-Flat	SMA-Flat	SlimSMA	SOD-128	SMB
Tj	175°C	175°C	175°C	150°C	150°C

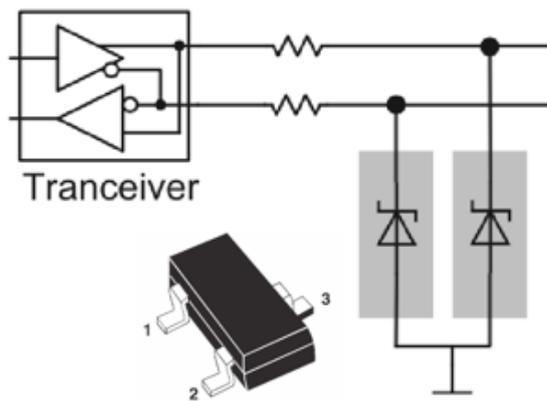
New Product

ESOTxxC

Dual 400W Transient Voltage Suppressors Array

Electrostatic discharge (ESD) is a major cause of failure in electronic systems. Transient Voltage Suppressors (TVS) are an ideal choice for ESD protection. They are capable of clamping the incoming transient to a low enough level such that damage to the protected semiconductor is prevented. Surface mount TVS arrays offer the best choice for minimal lead inductance. They serve as parallel protection elements, connected between the signal line to ground. As the transient rises above the operating voltage of the device, the TVS array becomes a low impedance path diverting the transient current to ground. The ESOTxxC array is the ideal board level protection of ESD sensitive semiconductor components.

VRRM (V) on
3.3V, 5.0V, 12.0V, 15.0V, 24V
are available



FEATURES

- 2 Unidirectional Transil functions
- Low leakage current: $I_R \max < 20\mu A$ at VRM
- 400W peak pulse power(8/20 μ s)
- Transient protection for data lines as per MIL STD 883E - Method 3015-7 Class 3
- 25 kV HBM

APPLICATIONS

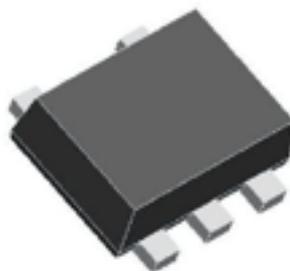
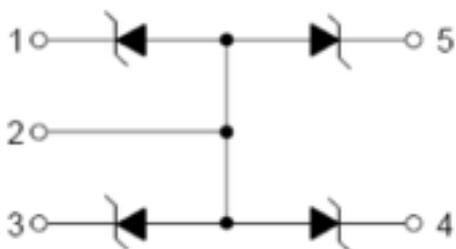
- Computers
- Printers
- Communication systems
- Point-of-Sale Terminals
- Motor Controls
- Legacy Ports, (RS-232, RS-485)
- Security and Alarm Systems

ESEMFxxxLC SERIES

Low Capacitance Quad Array for ESD Protection

General Description

This integrated transient voltage suppressor device (TVS) is designed for applications requiring transient over voltage protection, printers, business machines, communication systems, medical equipment, and other applications. Its integrated design provides very effective and reliable protection for separate lines using only one package. These devices are ideal for situations where board space is at a premium.



SOT-523

Features

Four Separate Unidirectional Configurations for Protection

Low Leakage Current < 1 μ A @ 3Volts

Power Dissipation: 380mW

Small SOT-553 SMT Package

Low Capacitance

Complies to USB 1.1 Low Speed & Speed Specifications

These are Pb-Free Devices

Electrical Characteristics							
Part Numbers	V_{BR}			I_T	V_{RWM}	I_R	C
	Min.	Typ.	Max.				Typ. 0v bias
	V	V	V	mA	V	μ A	pF
ESEMF3V3LC	5.3	5.6	5.9	1	3.0	1.0	12
ESEMF05LC	6.1	6.8	7.2	1	5.0	1.0	8
ESEMF12LC	11.4	12	12.7	5	9.0	1.0	7

80V SMD Power Schottky Diodes

In many power applications, traditionally design engineers used 100 V power Schottky diodes for secondary rectification due to the availability of a larger number of sources.

Now you have better option, especially on new Energy Star requirements require higher efficiency in markets that don't want to pay for it.

Bruckewell offer the new generation lower VF 80 V Schottky diodes can replace these 100 V Schottkies, providing lower Vf with associated efficiency gains, and lower costs.

We are ready to support these markets with a range of 10 A to 20 A, 80 V power Schottky diodes, in TO-277, DFN3P3 thin package < 1.0mm

Part#	VF@5A	VF@iF (V)	IF (A)	IR@VR	Package
SD10PU80	0.51V	0.61V	10A	50uA	DFN 3.3
SS10PU80	0.51V	0.61V	10A	50uA	TO-277B
SS20PU80	0.46V	0.67V	20A	50uA	TO-277B

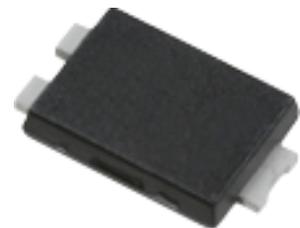
FEATURES

lower voltage drop

low leakage current

Thin SMD package

Available in Halogen-free packages

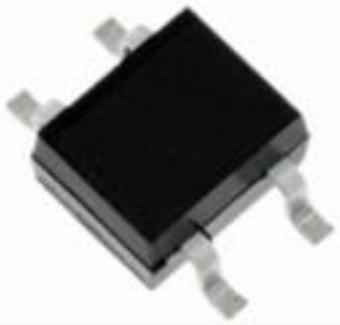


MBS/ABS Thin Bridge Series Ultra Low VF Schottky Bridge Rectifier

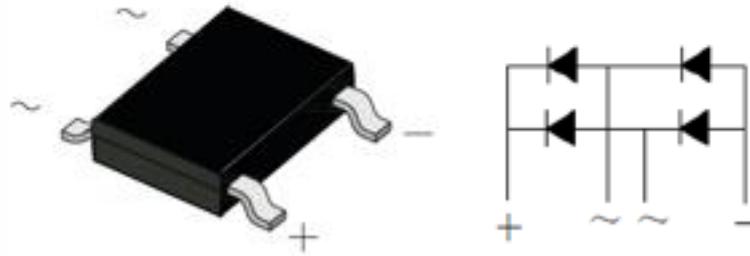
FEATURES

- Ideal for printed circuit board
- Reliable low cost construction technique results in inexpensive product
- High temperature soldering guaranteed
- Low forward voltage drop
- Low power loss, high efficiency

MBS package

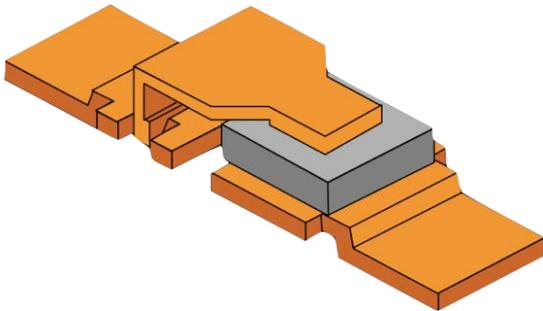


ABS package



	MDB26S	MDB26	MAB46
IF(A)	2A	2A	4A
VB (V)	60V	60V	60V
VF@IF, Tj=25°C	0.65V	0.50V	0.60V
RθJA	85 °C/W	85 °C/W	75 °C/W

SOD123FL/ST new Package



The SOD123FL and SOD123ST package is designed to:

Fit SOD123 foot print (JEDEC DO219) and package height < 1.0mm

Unique backside heat sink provides optimum power efficiency

The SOD123FL and SOD123ST Delivers:

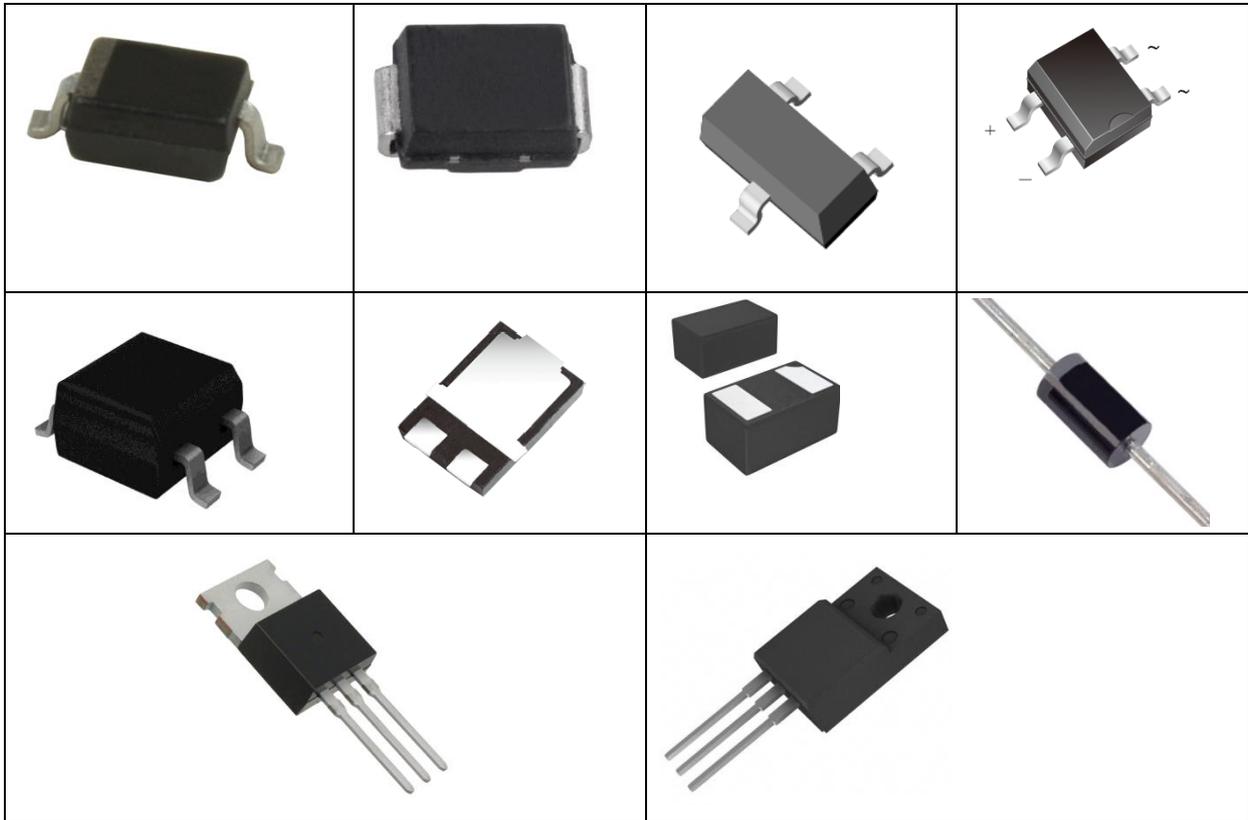
- Same footprint as industry standard SOD123 with 45% lower package height
- 32% more power/board area than SOD123
- 14% more power/board area than PowermiteR
- 86% more power/board area than SMAFrom

Product	Spec	Trr	P/N
Schottky	1~3 A/40~200V	<15ns	SD1XXX
Ultra Low VF Schottky	1-3A/40V-60V	<15ns	SD3U40ST SD
General Rectifier	1A 1000V	—	GS1010FL Series
Fast Rectifier	1A 50V-1000V	500ns	RS1010F Series
Ultra Fast Rectifier	1A 50V-1000V	50-75ns	US1010FL Sereis
Super Fast Rectifier	1A 50V-1000V	35ns	ES1010FL Series

Discrete semiconductors selection guide

Bipolar transistors, diodes, ESD protection, filtering and signal conditioning and MOSFETs

Product Selection Guide



Specifications are subject to change without notice.

The data indicated herein describe types of components and shall not be considered as assured characteristics.

The products listed in this catalog are not recommended for use in life support systems where a failure or malfunction of the component may directly threaten life or cause injury.

The user of products in such applications shall assume all risks of such use and will agree to hold Bruckewell Technology Corp and all the companies whose products are represented in this catalog, harmless against all damages.

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Discrete semiconductors selection guide

Bipolar transistors, diodes, ESD protection, filtering and signal conditioning and MOSFETs

SMD Diode						
Amp	Family / Package	SOD-123	SOD-123FL	SMA	SMAF	
0.7	Standard	RS07B-M				
1	Standard		SOD4001-7 GS1010FL	1SR154- 400/600 M1-7	GS1AF	
	Schottky		SD22FL SD24FL SD26FL SD210FL SD220FL			
	Fast		SUF140L SUF160L RS1010F ES1000FL-1006FL	US1A-M ES1A-J		
1.2	Fast					
1.5	Standard		GROA-M			
2	Schottky			SS22-210A		
2	Standard			GS2A-M		
	Fast			MURS220A- 240A, SUF205A		

SMD Diode						
Amp	Family / Package	SMB	SMC	DFN 2X1.3	TO-277A/B	
1	Fast			SUF160-D2		
2	Standard	S2A-M				
	Fast	US2A-M, ES2A-J MURS220-260B				
3	Standard		S3A-M			
	Fast	MURS320B-360B	MURS320-360			
5	Fast		SUF501C-505C		UFP560	

Discrete semiconductors selection guide

Bipolar transistors, diodes, ESD protection, filtering and signal conditioning and MOSFETs

Power Pack Diode				
Amp	Family / Package	TO-252	ITO-220AC	IT-220AB
6	Schottky	MBRD6100CT		
8	Fast		MUR860FS	
10	Fast		SF1020F	MURF1020CT-40CT MURF1060S
	Schottky		MBR1060-10100CT	MBRF1020CT-200CT
16	Fast			MURF1605CT-60CT
20	Schottky		MBR20300CT	MBRF2020CT,200CT MBRF20L45CT, TMBRF20150CT
30	Fast			
	Schottky			MBRF3020CT-200CT SBLF3060C-80C TMBRF30150CT

Axial Diode						
Amp	Family / Package	R-1	DO-41	DO-15	DO-201AD	R-6
1	Standard	1N4001-7S	1N4001-7 EM513.516,518			
2	Fast			SF21-28		
3	Fast				FR301G-307G	
	Schottky				SB315	
4	Fast				UF460	
5	Fast				FR501-507 SF51-59 UF560	
	Schottky				SB52-56, SB510UL	
15	Schottky					15SQ030-100

Discrete semiconductors selection guide

Bipolar transistors, diodes, ESD protection, filtering and signal conditioning and MOSFETs

PowerPack Diode			
Amp	Family / Package	TO-220AB	TO-247AD
6	Schottky		
8	Fast		
10	Fast		
	Schottky	MBR1020CT-200CT , TMBR10100CT	
16	Fast	MUR1605CT-60CT	
20	Schottky	MBR2020CT,200CT MBR20L45CT, TMBR2080CT, TMBR20100CT, MBR20300CT	
30	Fast		MUR3040PT-60PT
	Schottky	MBR3020CT-200CT SBL3045C, TMBR30100CT-150CT	SBL3040PT

Discrete semiconductors selection guide

Bipolar transistors, diodes, ESD protection, filtering and signal conditioning and MOSFETs

Zener Diode							
Amp	Family / Package	SOD-323	SOD-123	SOT-23	SOT-323	SMA	SMB
0.2	Zener	BZT52XXX RSB18V (Bi-Dir) BZX384CXX X			RSB18V		
0.225	Zener			BZX84XXX			
0.3	Zener	MM3ZXXX		AZ23XXX DZ23XXX (Dual)			
0.5	Zener	BZT52CXXS	MMSZXXB , BZT52CXX BZT52BXX				
1	Zener		1N4729AW ~ 1N4761AW			SZ103D- SZ10B0	
1.5	Zener					SZ303D - SZ30D0	
3	Zener						1SMB59XX X

Zener Diode							
Amp	Family / Package	SOD-123FL					
0.5	Zener	MMSZXXX					
1	Zener						
1.5	Zener						
3	Zener						

Discrete semiconductors selection guide

Bipolar transistors, diodes, ESD protection, filtering and signal conditioning and MOSFETs

Bridge Rectifier								
Amp	Family / Package	MBS	TBF	ABS	DFS / DBS	KBU	KBP	GBU
0.5	Standard	B1S-10S						
0.8	Standard	MB1S-10S						
1	Standard	MB005-010 MBL06S MDB1100	MTB1100	ABS102-110	DFXXS			
1.5	Standard				DF15XXS / DB15XXS			
2	Standard		MTB26	ABS202-210			KBP2XX	
	Schottky	MB12S-120S MB22S-210S MDB26						
3	Standard						KBP3XX	
4	Standard						KBP4XXX	GBU4A-M GBU4AL-4ML
	Schottky			MAB46				
6	Standard					KBU6XX		GBU6XX
8	Standard					KBU8XX		GBU8A-M
10	Standard					KBU10XX		GBU10XX
15	Standard							GBU15005-10

Discrete semiconductors selection guide

Bipolar transistors, diodes, ESD protection, filtering and signal conditioning and MOSFETs

Bridge Rectifier

Amp	Family / Package	WOB	WOBM	BR3	BR6	BR8	4GBJ	GBPCW	GBPC
1.5	Standard	1.5WXX							
2	Standard	2WXX	2WOXXM						
3	Standard			BR3XX					
4	Standard						4GBJ4XX		
6	Standard				BR6XX				
8	Standard								
10	Standard					BR10XXS			
15	Standard							GBPC15XW	GBPC15XX
25	Standard							GBPC25XW	GBPC25XX
35	Standard							GBPC35XW	GBPC35XX
50	Standard							GBPC50XW	GBPC50XX

Small Signal Switching Diodes

IC (A)	Family / Package	1206	DO-35	SOD-123	SOD-323	SOD-523
0.1	Switching				1SS355	1SS400
0.15	Switching	1N4148W-N	1N4148	BAV16W, 1N4148W	1N4148WS, BAV16H	
0.20	Switching			BAV19W-21W	BAS321	
	Schottky			BAS43W	BAT54	
0.30	Switching					

Discrete semiconductors selection guide

Bipolar transistors, diodes, ESD protection, filtering and signal conditioning and MOSFETs

Small Signal Switching Diodes

IC (A)	Family / Package	SOT-23	SOT-523	SOT-363
0.1	Switching			
0.15	Switching			
0.20	Switching	BAS21, BAV99	BAT54T, BAT54AT,CT,ST	
0.30	Switching	BAT54, BAT54A,C,S		
	Schottky			BAT54ADW, BAT54BRW, BAT54CDW, BAT54SDW, BAT54TW

Transient Voltage Suppressor

Watt (W)	Family / Package	DO-41	DO-15	DO-201AD	R-6	SOD-123
200	TVS					SMFXXX
400	TVS	P4KEXXX				
600	TVS		P6KEXXX			
1500	TVS			1.5KEXXX		
3000	TVS					
5000	TVS				5KPXXX	

Transient Voltage Suppressor

Watt (W)	Family / Package	SMA	SMAF	SMB	SMC
200	TVS				
400	TVS	P4SMAXXX			
600	TVS	SMA6FXXA	SMA6FLXXA	P6SMBXXX, SMBJXXX	
1500	TVS				1SMCXXX, SMCJXXX
3000	TVS				3.0SMCXXX
5000	TVS				

Discrete semiconductors selection guide

Bipolar transistors, diodes, ESD protection, filtering and signal conditioning and MOSFETs

Transistors						
IC (A)	Family / Package	SOD-353	SOD-323	SOT-323	SOT-523	SOT-363
0.1	NPN	1SS400	1SS355		DTC144TE	
	PNP			BC856XW-858XW		
0.6	NPN					MMDT2222A (Dual)
	PNP					MMDT2907A (Dual)

Transistors					
IC (A)	Family / Package	SOT-23	SOT-89	SOT-523	SOT-323
0.1	NPN	S9014, 2SC1623 BC817-40, BC846A-848C DTCXXXCA		DTCXXXE	
	PNP	BC807-40, BC856A-858C TA114ECA-TA144ECA, DTAXXXCA		DTAXXXE	BC856AW-58CW
0.2	NPN	MMBT3904	2SC4548	2SC4617XT1G	2SC2412
	PNP	MMBT3906, 2SA1162			

Transistors						
IC (A)	Family / Package	SOT-23	SOT-89	TO-252	TO-92	
0.5	NPN	MMBTA05, 06	A42			
	PNP	S9012LT, MMBTA55, 56, BC807-40, BC817-16, 25,40	2SC4548, A92			
0.6	NPN				2N5551	
	PNP					
1	NPN	MMBT2222A	BCX54-56			
	PNP	MMBT2907A	BCX51-53			
1.5	NPN	SS8050				
	PNP					
5	NPN		2SD2908	2SC2562		
	PNP		2SB1386	2SA1012		

Discrete semiconductors selection guide

Bipolar transistors, diodes, ESD protection, filtering and signal conditioning and MOSFETs

Schottky-SMD							
Amp	Family / Package	SOD-523	SOD-323	SOD-123	SOD-123FL	SOT-23	DFN0805
0.2	Schottky		BAS54H	BAT43W		BAS54,54 A,C,S	
0.35			SD103AWS				
0.5	Schottky	SD0530WT	RB551V-30				SS052D,53D
0.7	Schottky					BAS70,70- 4,5,6	
1	Schottky			SD14 SD1U40ST SD1U60ST	BL1200W, BS14FL	BAS100	
2	Schottky			SD22-210	BS24FL		
3	Schottky			SD34			

Schottky-SMD						
Amp	Family / Package	SOD-123ST	SOD-123S	SMA	SMA-S	DFN3P3
1	Schottky	SD14ST, SD1U40ST, SD1U60ST	SD14S	SS12-120, SL12-14		
2	Schottky			SS22A-220A	SS24S	
3	Schottky	SD3U40ST, SD3U60ST		SS32A-150A, SS34MA- 36MA		
5	Schottky			SS52A-53A, SS56MA		
6	Schottky					SD6PU100
8	Schottky					SD8PU100
10	Schottky					SD10PU80, SD10PU100, SD10PU120, SD10PU200

Discrete semiconductors selection guide

Bipolar transistors, diodes, ESD protection, filtering and signal conditioning and MOSFETs

Schottky-SMD				
Amp	Family / Package	SMB	SMC	TO-277A/B
2		SS2200B		
3	Schottky	SS32B-315B, SSL32B-34B	SS32-315, SSL32- 34,SS3100H	
5	Schottky	SS52B-515B	SS52C-515C	SS5P100
6	Schottky			SS6PU100
8	Schottky			SS8P40-100. SS8PU100,
10	Schottky			SS10P20-100, SS10PU50, SS10PU100/100S, SS10PU120S, SS10PU200/200S, SS10PU80, SS20PU80
12	Schottky			SS12P40-60, SS12PU120S
15	Schottky			SS15P30

ESD Protection Diodes & Arrays						
C Max (pF)	DFN-10	DFN-1006	DFN1725	SOT-353	SOT-363-6	SOT-23-6
0.3	ESDF5V4					
0.5	ESDFN05CU	ESDFN05CL				
0.6					ESD0503-04	
0.9						
3						ESRV05-4
5						
10		EBL0501T	SOTY05D-12D			
15						
25						
35				ESMF3V3-12	ESDA6V1W6	
50						
80						
100						

Discrete semiconductors selection guide

Bipolar transistors, diodes, ESD protection, filtering and signal conditioning and MOSFETs

ESD Protection Diodes & Arrays

C Max (pF)	SOT-23	SOT-143	SOD-523	SOD-323	SMB	SOP-8
0.3						
0.5						
0.6		ESR12				
0.9			ESD5L5V			
3		ESR05L	ESD5Z5CL	ESD05CL, EBLC03(C)-24(C)		
5	EL05					
10		ESD50V12L				
15			ESD5Z5C	ESDV05CL		
25			ESD5Z5V-12V	ESD3Z5C	TSP3500SB, TSP4200SB	
35			ESD5Z3V3	ESD3Z12C		
>=50			ESD5V0D5	ESD3Z24V		
80					TSP0080SB	
100						TS61089 TS61089A TS61089B

ESD Protection Diodes & Arrays

C Max (pF)	0201	WBFBP-02L			
0.3		WBFBP-02L			
0.5	ESDFN2105VL				
0.6		ESDFBP05VL			
0.9					
3					
5		ESDFBP05CL			
10					
15					
25					
35					
>50					

Discrete semiconductors selection guide

Bipolar transistors, diodes, ESD protection, filtering and signal conditioning and MOSFETs

MOSFET - Low Voltage MOSFET								
VBR (V)	Family / Package	DFN2X2	DFN-2X5	DFN-3X3	SOT-883	SOIC-8	TSSOP-8	SOT-23-3L
20	N Channel		MS9N20E (Dual)		MS23N20Z	MSQ99N26 (Dual)	MS69N68 MS82N05A	MS20N04NE MS23N02 MS82N05E
	P Channel	MSA4P21			MS23P19Z			MS23P01, MS23P21, MS23P25, BWS2301 MSP2301N3 MS23P05
25	N Channel							
	P Channel							
30	N Channel			MSK19N03 MSC39N12				BW3402, MS23N36 MSB55N03N 3MSD23N22 MS23N22 MS23N26 MS23N18 MS40N02
	P Channel							MS23P39 MS34P01 BW3402
40	N Channel							
	P Channel							
50	N Channel							BSS138
	P Channel							BSS84
60	N Channel							MSD23N58 MSK1N3 MSD69N02 2N7002K
	P Channel							MS23P61 MS60P02NE MS23P59

Discrete semiconductors selection guide

Bipolar transistors, diodes, ESD protection, filtering and signal conditioning and MOSFETs

MOSFET - Low Voltage MOSFET

VBR (V)	Family / Package	DFN2X2	DFN-2X5	DFN-3X3	SOT-883	SOIC-8	TSSOP-8	SOT-23-3L
75	N Channel							
	P Channel							
100	N Channel							MS23N70 BSS123
	P Channel							

Discrete semiconductors selection guide

Bipolar transistors, diodes, ESD protection, filtering and signal conditioning and MOSFETs

MOSFET - Low Voltage MOSFET							
VBR (V)	Family / Package	DFN5X6	SO-23-6 (SOT-26)	SC70-3 (SOT-323)	SC70-6	TSOP-6	SOIC-8 (SO-8)
20	N Channel		MSE20N06N (Dual)				MSQ99N26
	P Channel			MS13P21 MS23P01S	MS14P21	MS34P07	MS44P15, MSQ94P33
25	N Channel						
	P Channel						
30	N Channel	MSC22N03 MSC39N60X MSC39N02X	MSQ39N12	MS13N30	MS15C37 (N+P)	MS34N34 MS3531C (Dual)	MS17N03Q8, MSQ6N30 MSC22N03, MSC37N03, MSQ27N30 (Dual), MSQ6N30, MS49N20
	P Channel					MS39P93	MS48P35 MS48P25 MS42P03 MSS37C10
40	N Channel	MSC49N60X MSC49N02X					MS48N40 MS45C41 (N+P)
	P Channel						
60	N Channel	MS74N62 MS74N52 MS40N06					MS99N45 MS67C10 (N+P)
	P Channel						MS49P63
100	N Channel	MSC09N74X				MSP02N10	
	P Channel						

Discrete semiconductors selection guide

Bipolar transistors, diodes, ESD protection, filtering and signal conditioning and MOSFETs

MOSFET - Low Voltage MOSFET					
VBR (V)	Family / Package	SOIC-8PP	TO-252	TO-251	TO-220
20	N Channel				
	P Channel				
25	N Channel		MSD80N03		
	P Channel				
30	N Channel	MSQ7434N (Dual) MSC37N03	MSD50N03, MSD36N12 MSD39N08 MSD30N94 MSD39N60 MS70N03		
	P Channel		MSD40P03		
40	N Channel	MSQ6N40 MSS34N40			MS49N02 MS49N60
	P Channel				MS75N080
60	N Channel		MSD20N06, MSD30N06 MSD69N02	MS20N06	MS50N06, MS90N06
	P Channel		MSD30P06 MSD69P05		MS69P05
75	N Channel				MS75N75
	P Channel				
100	N Channel		MSD20N10 MSD50N10 MSD09N66		
	P Channel				

Discrete semiconductors selection guide

Bipolar transistors, diodes, ESD protection, filtering and signal conditioning and MOSFETs

High Voltage MOSFET						
VBR (V)	Family / Package	SOT-23-3L	SOT-223	SOIC-8PP	TO-252	TO-251
200			MSL03N20			
400	N Channel				MSD4N40	MSU4N40
500				MSQ5N50		MSU5N50
600		DMS05N60	MSL01N60		MSD2N60, MSD4N60	MSU1N60, MSU2N60, MSU2N60S, MSU4N60, MSU4N60_S, MSU5N60
800						MSU4N65
					MSD2N70, MSD4N70	MSU2N70
>=900						

High Voltage MOSFET					
VBR (V)	Family / Package	TO-220	TO-220F	TO-263	TO-247AD
100	N Channel	MSD50N10, MSD20N10		MSB90N10, MSB190N10	
	P Channel				
200	N Channel		MSF9N20		
	P Channel				
400	N Channel	MS6N40	MSF2N40, MSF6N40, MSF10N40		
500	N Channel	MS5N50 (A), MS8N50, MS13N50, MS15N50, MS18N50	MSF5N50, MSF8N50, MSF13N50, MSF16N50, MSF18N50, MSF20N50		MSW16N50 MSW20N50

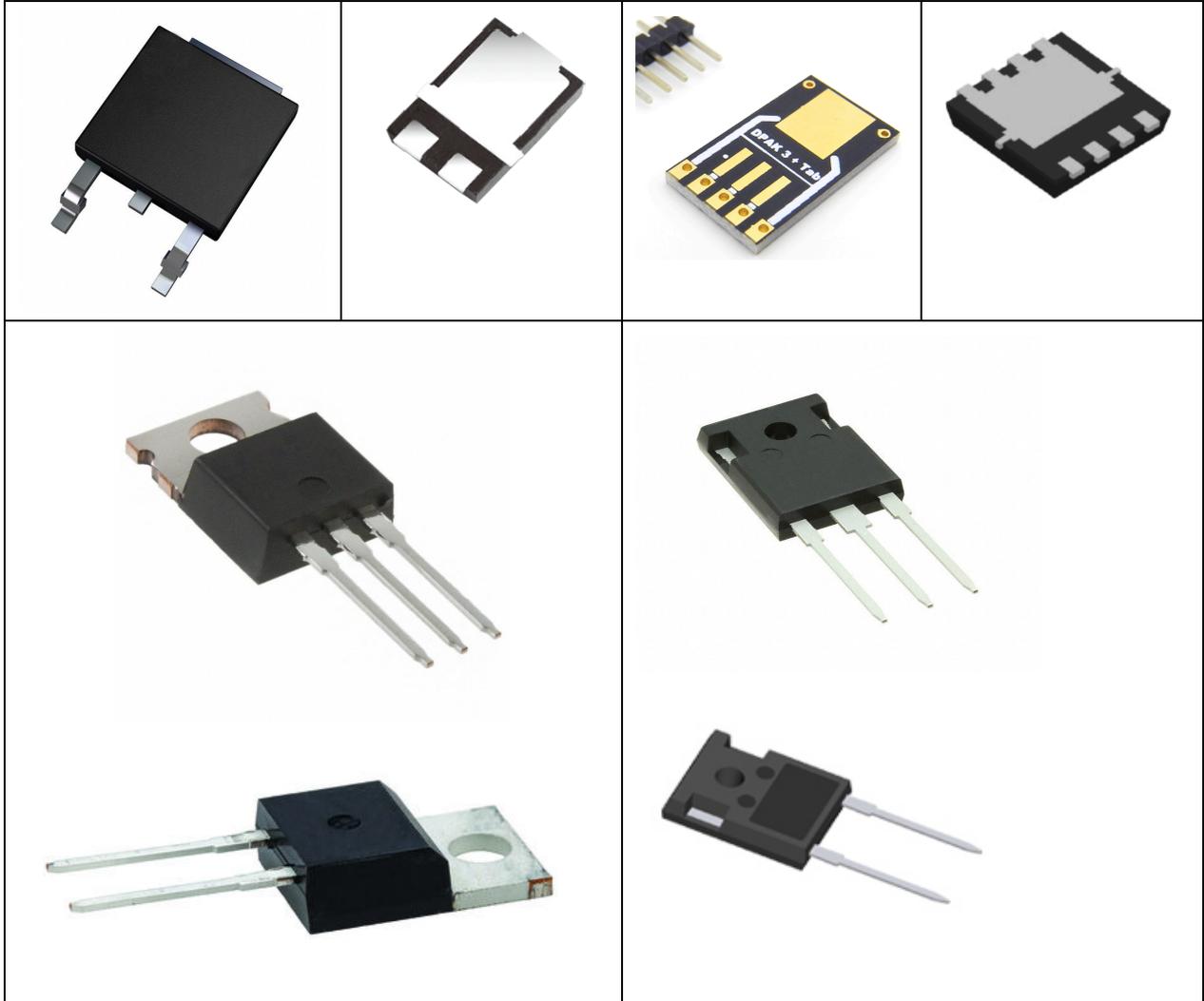
High Voltage MOSFET

Discrete semiconductors selection guide

Bipolar transistors, diodes, ESD protection, filtering and signal conditioning and MOSFETs

High Voltage MOSFET					
VBR (V)	Family / Package	TO-220	TO-220F	TO-263	TO-247AD
600	N Channel	MS4N60, MS5N60, MS7N60, MS8N60, MS10N60, MS12N60, MS14N60, MS15N60	MSF2N60, MSF4N60, MSF4N60LMSF5N60, MSF6N60, MSF7N60, MSF8N60, MSF10N60, MSF12N60,MSF13N60, MSF14N60, MSF15N60	MSB15N60	MSW20N60
650	N Channel	MS4N65, MS10N65, MS12N65	MSF4N65, MSF6N65, MSF7N65, MSF10N65, MSF12N65		
700	N Channel		MSF2N70, MSF6N70, MSF7N70, MSF9N70, MSF11N70		
800	N Channel	MS3N80, MS6N80, MS7N80, MS10N80	MSF3N80, MSF7N80, MSF8N80, MSF10N80(A)		MSW10N80
>=900	N Channel	MS6N90, MS9N90, MS6N95	MSF6N90, MSF9N90		MSW9N90, MSW11N90

Novel SiC Products Selection Guide



Specifications are subject to change without notice.

The data indicated herein describe types of components and shall not be considered as assured characteristics.

The products listed in this catalog are not recommended for use in life support systems where a failure or malfunction of the component may directly threaten life or cause injury.

The user of products in such applications shall assume all risks of such use and will agree to hold Bruckewell Technology Corp and all the companies whose products are represented in this catalog, harmless against all damages.

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SiC Series Products selection guide

Schottky Diodes and MOSFETs

In the recent decades, the Silicon carbide (SiC), turned out to be an excellent semiconductor material. Composed of carbon and silicon, and used in power applications in which it showed excellent performance, far superior to those of silicon.

Significant progress has been made in the field of the semiconductor industry, in which the technologies for the processing of silicon carbide have become increasingly more sophisticated, and have produced semiconductor devices with excellent performance.

In the facts those devices during the applications have shown a remarkable capacity to reduce losses and a high switching speed in comparison to that offered by silicon. The use of silicon carbide (SiC) as a semiconductor begins to expand into multiple applications and always proves to be more and more the candidate to replace silicon in the most important applications such as automotive and E-Bike motor control.

For these reasons, Bruckewell Semi decided to launch the production of the SiC Products, including the SiC Schottky Diode and SiC MOSFET, support the 650V to 1200V, and give the opportunity to its customers to take advantage of the benefits that the products offer in the SiC high-voltage power applications.

Present our SiC products line as below

SMD Package

Amp	DFN3X3	DFN5X6	TO-277	DFN 8X8	TO-252(DPak)	TO-263(D2Pak)
4					CBR04P65K	
6					CBR06P65K	
8					CBR08P65K	
10	CBR10P65D3		CBR10P65S CBR10120S		CBR10P65K CBR10120K	
20			CBR20120S			
30		CBR30120D5	CBR30120S			
40						

DFN 3X3 is unique package and CBR10P65D3 is first smallest SiC SBD Diode in the industry.

TO-277 has same foot print with TO-252 (DPak), and has better thermal performance.

Through Hole Package

Amp	TO-220AC	TO-220AB	TO-247	TO-247 (Dual Die)
4	CBR04P65			
6	CBR06P65			
8	CBR08P65			
10	CBR10P65 CBR10120	CBR10120P	CBR10120W	
20	CBR20P65 CBR20120	CBR20P65PC CBR20120P	CBR20P65W CBR20120W	CBR20P65WC CBR20120WC
30			CBR30120W	
40				CBR40P65WC CBR40120WC

SiC Series Products selection guide

Schottky Diodes and MOSFETs

Part Nomenclature

Example: CBR20P65PC

CBR	SiC Barrier Rectifier
CMS	SiC MOSFET
20	IF, Forward current, as 20A
P65	Breakdown Voltage, as P65=650V, 120=1200V
PC	Package Code Blank: TO-220AC P: TO-220AB PC: TO-220AB, Dual Die K: TO-252, DPAK W: TO-247 WC: TO-247, Dual Die S: TO-277 A: SMA, B: SMB, C: SMC B: TO-263, D2PAK D: DFN, D3: DFN3X3, D5: DFN 5X6, D8, DFN 8X8

When the diodes are used simultaneously:

$$\Delta T_j(\text{diode1}) = P(\text{diode1}) \times R_{th(j-c)} \text{ (per diode)} + P(\text{diode2}) \times R_{th(c)}$$

To evaluate the conduction losses use the following equation:

$$P = 1.35 \times I_F(AV) + 0.144 \times I_F^2(RMS)$$

SiC Series Products selection guide

Schottky Diodes and MOSFETs

Comparison with industry supplier-TO-220AC/AB

Amp	Bruckewell		ST-Micro		Infineon	
	TO-220AC	TO-220AB	TO-220AC	TO-220AB	TO-220AC	TO-220AB
2					IDH02G65C5 IDH02G120C5	
3					IDH03SG60C IDH03G65C5	
4	CBR04P65				IDH04SG60C IDH04G65C5	
5					IDH05SG60C IDH05G65C5 IDH05G120C5	
6	CBR06P65			STPSC6TH13TI	IDH06SG60C IDH06G65C5	
8	CBR08P65			STPSC8TH13TI STPSC8H065C	IDH08SG60C IDH08G65C5 IDH08G120C5	
9					IDH09SG60C IDH09G65C5	
10	CBR10P65 CBR10120	CBR10120P	STPSC10H065D STPSC10H12D	STPSC10TH13TI	IDH10SG60C IDH10G65C5 IDH10G120C5	
12			STPSC12065 STPSC1206	STPSC12H065C	IDH12SG60C IDH12G65C5	
15			STPSC15H12			
16				STPSC16H065C	IDH16G65C5 IDH16G120C5	
20	CBR20P65 CBR20120	CBR20P65PC CBR20120P	STPSC20065D STPSC20H12D	STPSC20H065C	IDH20G65C5 IDH20G120C5	

Note:

The suffix C5 in the Infineon Parts means the CoolSiC™ 5G, others are CoolSiC™ 3G

SiC Series Products selection guide

Schottky Diodes and MOSFETs

Comparison with Japan suppliers-TO-220AC/AB

Amp	Bruckewell		Rohm		Toshiba	
	TO-220AC	TO-220AB	TO-220AC	ITO-220AC	TO-220AC	ITO-220AC
4	CBR04P65		SCS304AP		TRS4E65F	TRS4A65F
5			SCS205KG			
6	CBR06P65		SCS306AP SCS206AG	SCS206AM	TRS6E65F	TRS6A65F
8	CBR08P65		SCS308AP SCS208AG	SCS208AM	TRS8E65F	TRS8A65F
10	CBR10P65 CBR10120	CBR10120P	SCS310AP SCS210AG SCS210KG	SCS210AM	TRS10E65F	TRS10A65F
12			SCS212AG	SCS212AM		
15			SCS215AG SCS215KG	SCS215AM		
20	CBR20P65 CBR20120	CBR20P65PC CBR20120P	SCS220AG SCS220KG	SCS220AM		

Note:

The suffix of Rohm Parts means the breakdown voltage, A means 650V, K means 1200V

SiC Series Products selection guide

Schottky Diodes and MOSFETs

Comparison with industry supplier-TO-247 Single/ Dual Die

Amp	Bruckewell		ST-Micro		Infineon	
	TO-247	TO-247 Dual	TO-247	TO-247 Dual	TO-247	TO-247 Dual
10	CBR10120W				IDW10G65C5	IDW10G120C5B
20	CBR20P65W CBR20120W	CBR20P65WC CBR20120WC	STPSC20065W	STPSC20H065CW	IDW20G65C5	IDW20G65C5B IDW20G120C5B
12					IDW12G65C5	
15						IDW15G120C5B
16					IDW16G65C5	
24						IDW24G65C5B
30	CBR30120W				IDW30G65C5	IDW30G120C5B
32						IDW32G65C5B
40		CBR40120WC		STPSC40065CW	IDW40G65C5	IDW40G65C5B IDW40G120C5B

Comparison with Japan suppliers-TO-247 Single/ Dual Die

Amp	Bruckewell		Rohm		Fuji electric	
	TO-247	TO-247 Dual	TO-247	TO-247 Dual	TO-247	TO-247 Dual
10	CBR10120W			SCS210KE2	FDCY10S65	
15			SCS215AE			
20	CBR20P65W CBR20120W	CBR20P65WC CBR20120WC	SCS220AE	SCS220AE2 SCS220KE2	FDCY18S120	FDCY20C65
25					FDCY25S65	
30	CBR30120W			SCS230AE2 SCS230KE2		
40		CBR40120WC		SCS240AE2 SCS240KE2		FDCY36C120
50						FDCY50C65

SiC Series Products selection guide

Schottky Diodes and MOSFETs

Product	IO(A)	VB min (V)	VF typ(V)	IR Max (uA)	Package	Number of Diodes
CBR04P65	4	650	1.5	10	TO-220AC	1
CBR04P65K	4	650	1.5	10	DPAK (TO-252)	1
CBR06P65	6	650	1.5	10	TO-220AC	1
CBR06P65K	6	650	1.5	10	DPAK (TO-252)	1
CBR08P65	8	650	1.5	10	TO-220AC	1
CBR08P65K	8	650	1.5	10	DPAK (TO-252)	1
CBR10P65	10	650	1.5	10	TO-220AC	1
CBR10P65K	10	650	1.5	10	DPAK (TO-252)	1
CBR10P65S	10	650	1.5	10	TO-277	1
CBR10P65D3	10	650	1.5	10	DFN3.3	1
CBR20P65PC	20	650	1.5	10	TO-220AB	2
CBR20P65	20	650	1.5	10	TO-220AC	1
CBR20P65W	20	650	1.5	10	TO-247	1
CBR20P65WC	20	650	1.5	10	TO-247	2
CBR40P65WC	40	650	1.5	10	TO-247	2
CBR10120	10	1200	1.5	10	TO-220AC	1
CBR10120P	10	1200	1.5	10	TO-220AB	1
CBR10120K	10	1200	1.5	10	DPAK (TO-252)	1
CBR10120S	10	1200	1.5	10	TO-277	1
CBR10120W	10	1200	1.5	10	TO-247	1
CBR20120WC	20	1200	1.5	10	TO-247	2
CBR20120W	20	1200	1.5	10	TO-247	1
CBR20120	20	1200	1.5	10	TO-220AC	1
CBR20120P	20	1200	1.5	10	TO-220AB	1
CBR20120S	20	1200	1.5	10	TO-277	1
CBR30120W	30	1200	1.5	10	TO-247	1
CBR30120S	30	1200	1.5	10	TO-277	1
CBR30120D5	30	1200	1.5	10	DFN 5X6	1
CBR40120WC	40	1200	1.5	10	TO-247	2

SiC Series Products selection guide

Schottky Diodes and MOSFETs

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Product specifications do not expand or otherwise modify Bruckewell's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Diode/Rectifier Standard/ Fast Recovery Diode

Part Number	IO(rec) Max (A)	VRRM Max (V)	VFM Max (V)	IFSM Max (A)	IRM Max (mA)	Package
SURFACE MOUNT PACKAGE						
RS07B	0.7	100	1.15	20	0.01	SOD-123
RS07D	0.7	200	1.15	20	0.01	SOD-123
RS07G	0.7	400	1.15	20	0.01	SOD-123
RS07J	0.7	600	1.15	20	0.01	SOD-123
RS07K	0.7	800	1.15	20	0.01	SOD-123
RS07M	0.7	1000	1.15	20	0.01	SOD-123
SOD4001	1.0	50	1.1	25	0.005	SOD-123
SOD4002	1.0	100	1.1	25	0.005	SOD-123
SOD4003	1.0	200	1.1	25	0.005	SOD-123
SOD4004	1.0	400	1.1	25	0.005	SOD-123
SOD4005	1.0	600	1.1	25	0.005	SOD-123
SOD4006	1.0	800	1.1	25	0.005	SOD-123
SOD4007	1.0	1000	1.1	25	0.005	SOD-123
GS1010FL	1.0	1000	1.0	30	0.002	SOD-123
ES1000FL	1.0	50	0.95	30	0.005	SOD-123
ES1001FL	1.0	100	0.95	30	0.005	SOD-123
ES1002FL	1.0	200	0.95	30	0.005	SOD-123
ES1004FL	1.0	400	1.25	30	0.005	SOD-123
ES1006FL	1.0	600	1.7	30	0.005	SOD-123
RS1010F	1.0	1000	1.15	30	0.002	SOD-123
RS1010FS	1.2	1000	1.25	30	0.002	SOD-123
GROA	1.5	50	1.3	50	0.005	SOD-123
GROB	1.5	100	1.3	50	0.005	SOD-123
GROD	1.5	200	1.3	50	0.005	SOD-123
GROG	1.5	400	1.3	50	0.005	SOD-123
GROJ	1.5	600	1.3	50	0.005	SOD-123
GROK	1.5	800	1.3	50	0.005	SOD-123
GROM	1.5	1000	1.3	50	0.005	SOD-123
SUF140L	1.0	400	1.25	25	0.01	SOD-123
SUF160L	1.0	600	1.70	25	0.001	SOD-123
GS1AF	1.0	1000	1	30	0.002	SMAF
M1	1.0	50	1.1	30	0.005	SMA
M2	1.0	100	1.1	30	0.005	SMA
M3	1.0	200	1.1	30	0.005	SMA
M4	1.0	400	1.1	30	0.005	SMA
M5	1.0	600	1.1	30	0.005	SMA
M6	1.0	800	1.1	30	0.005	SMA
M7	1.0	1000	1.1	30	0.005	SMA
1SR154-400	1.0	400	1.1	30	0.010	SMA
1SR154-600	1.0	600	1.1	30	0.010	SMA
US1A	1.0	50	1.00	30	0.01	SMA
US1B	1.0	100	1.00	30	0.01	SMA
US1D	1.0	200	1.00	30	0.01	SMA
US1G	1.0	400	1.40	30	0.01	SMA

Diode/Rectifier Standard/ Fast Recovery Diode

Part Number	IO(rec) Max (A)	VRRM Max (V)	VFM Max (V)	IFSM Max (A)	IRM Max (mA)	Package
US1A	1.0	50	1.00	30	0.01	SMA
US1B	1.0	100	1.00	30	0.01	SMA
US1D	1.0	200	1.00	30	0.01	SMA
US1G	1.0	400	1.40	30	0.01	SMA
US1J	1.0	600	1.70	30	0.01	SMA
US1K	1.0	800	1.70	30	0.01	SMA
US1M	1.0	1000	1.70	30	0.01	SMA
ES1A	1.0	50	0.95	30	0.005	SMA
ES1B	1.0	100	0.95	30	0.005	SMA
ES1D	1.0	200	0.95	30	0.005	SMA
ES1G	1.0	400	0.95	30	0.005	SMA
ES1J	1.0	600	1.7	30	0.005	SMA
SUF205A	2.0	600	1.7	50	0.005	SMA
MURS220A	2.0	200	1.3	40	0.005	SMA
MURS230A	2.0	400	1.3	40	0.005	SMA
MURS240A	2.0	600	1.3	40	0.005	SMA
MURS220	2.0	200	1	40	0.005	SMB
MURS240	2.0	400	1.2	40	0.005	SMB
MURS260	2.0	600	1.5	40	0.005	SMB
S2A	2.0	50	1.15	50	0.005	SMB
S2B	2.0	100	1.15	50	0.005	SMB
S2D	2.0	200	1.15	50	0.005	SMB
S2G	2.0	400	1.15	50	0.005	SMB
S2J	2.0	600	1.15	50	0.005	SMB
S2K	2.0	800	1.15	50	0.005	SMB
S2M	2.0	1000	1.15	50	0.005	SMB
US2A	2.0	50	1.00	30	0.01	SMB
US2B	2.0	100	1.00	30	0.01	SMB
US2D	2.0	200	1.00	30	0.01	SMB
US2G	2.0	400	1.00	30	0.01	SMB
US2J	2.0	600	1.70	30	0.01	SMB
US2K	2.0	800	1.70	30	0.01	SMB
US2M	2.0	1000	1.70	30	0.01	SMB
ES2A	2.0	50	0.95	30	0.01	SMB
ES2B	2.0	100	0.95	30	0.01	SMB
ES2D	2.0	200	0.95	30	0.01	SMB
ES2G	2.0	400	1.3	30	0.01	SMB
ES2J	2.0	600	1.7	30	0.01	SMB
MURS320B	3.0	200	0.9	75	0.005	SMB
MURS340B	3.0	400	1.3	75	0.005	SMB
MURS360B	3.0	600	1.3	75	0.005	SMB
MURS320	3.0	200	0.9	75	0.005	SMC
MURS340	3.0	400	1.3	75	0.005	SMC
MURS360	3.0	600	1.3	75	0.01	SMC

Diode/Rectifier Standard/ Fast Recovery Diode

Part Number	IO(rec) Max (A)	VRRM Max (V)	VFM Max (V)	IFSM Max (A)	IRM Max (mA)	Package
SUF501C	5.0	50	0.98	120	0.005	SMC
SUF502C	5.0	100	0.98	120	0.005	SMC
SUF503C	5.0	200	0.98	120	0.005	SMC
SUF504C	5.0	400	1.25	120	0.005	SMC
SUF505C	5.0	600	1.7	120	0.005	SMC
S3A	3.0	50	1.2	200	5.0	SMC
S3B	3.0	100	1.2	200	5.0	SMC
S3D	3.0	200	1.2	200	5.0	SMC
S3G	3.0	400	1.2	200	5.0	SMC
S3J	3.0	600	1.2	200	5.0	SMC
S3K	3.0	800	1.2	200	5.0	SMC
S3M	3.0	1000	1.2	200	5.0	SMC
AXIAL LEAD PACKAGE						
1N4001S	1.0	50	1.1	30	0.03	R-1
1N4002S	1.0	100	1.1	30	0.03	R-1
1N4003S	1.0	200	1.1	30	0.03	R-1
1N4004S	1.0	400	1.1	30	0.03	R-1
1N4005S	1.0	600	1.1	30	0.03	R-1
1N4006S	1.0	800	1.1	30	0.03	R-1
1N4007S	1.0	1000	1.1	30	0.03	R-1
1N4007	1.0	1000	1.1	30	0.005	R-1
1N4001	1.0	50	1.1	30	0.03	DO-41
1N4002	1.0	100	1.1	30	0.03	DO-41
1N4003	1.0	200	1.1	30	0.03	DO-41
1N4004	1.0	400	1.1	30	0.03	DO-41
1N4005	1.0	600	1.1	30	0.03	DO-41
1N4006	1.0	800	1.1	30	0.03	DO-41
1N4007	1.0	1000	1.1	30	0.03	DO-41
EM513	1.0	1600	1.1	30	5.00	DO-41
EM516	1.0	1800	1.1	30	5.00	DO-41
EM518	1.0	2000	1.1	30	5.00	DO-41
SF21	2.0	50	0.95	50	0.005	DO-15
SF22	2.0	100	0.95	50	0.005	DO-15
SF23	2.0	150	0.95	50	0.005	DO-15
SF24	2.0	200	0.95	50	0.005	DO-15
SF25	2.0	300	1.25	50	0.005	DO-15
SF26	2.0	400	1.25	50	0.005	DO-15
SF27	2.0	500	1.7	50	0.005	DO-15
SF28	2.0	600	1.7	50	0.005	DO-15
FR301G	3.0	50	1.3	100	0.005	DO-201AD
FR302G	3.0	100	1.3	100	0.005	DO-201AD
FR303G	3.0	200	1.3	100	0.005	DO-201AD
FR304G	3.0	400	1.3	100	0.005	DO-201AD
FR305G	3.0	600	1.3	100	0.005	DO-201AD
FR306G	3.0	800	1.3	100	0.005	DO-201AD

Diode/Rectifier Standard/ Fast Recovery Diode

Part Number	IO(rec) Max (A)	VRRM Max (V)	VFM Max (V)	IFSM Max (A)	IRM Max (mA)	Package
FR307G	3.0	1000	1.3	100	0.005	DO-201AD
FR307G-STR	3.0	1000	1.3	100	0.005	DO-201AD
UF460	4.0	600	1.28	125	0.01	DO-201AD
UF560	5.0	600	1.5	110	0.02	DO-201AD
FR501	5.0	50	1.3	300	0.01	DO-201AD
FR502	5.0	100	1.3	300	0.01	DO-201AD
FR503	5.0	200	1.3	300	0.01	DO-201AD
FR504	5.0	400	1.3	300	0.01	DO-201AD
FR505	5.0	600	1.3	300	0.01	DO-201AD
FR506	5.0	800	1.3	300	0.01	DO-201AD
FR507	5.0	1000	1.3	300	0.01	DO-201AD
SF51	5.0	50	0.95	135	0.01	DO-201AD
SF52	5.0	100	0.95	135	0.01	DO-201AD
SF53	5.0	150	0.95	135	0.01	DO-201AD
SF54	5.0	200	0.95	135	0.01	DO-201AD
SF55	5.0	300	1.7	135	0.01	DO-201AD
SF56	5.0	400	1.7	135	0.01	DO-201AD
SF57	5.0	600	1.7	135	0.01	DO-201AD
SF58	5.0	800	4	135	0.01	DO-201AD
SF59	5.0	1000	4	135	0.01	DO-201AD
THROUGH HOLE PACKAGE						
UFP560	5.0	600	2.5	80	0.02	TO-277A
MUR860FS	8.0	600	1.3	100	0.01	ITO-220AC
SF1020F	10.0	200	0.98	150	0.005	ITO-220AC
MURF1020CT	10.0	200	0.98	60	0.005	ITO-220AB
MURF1040CT	10.0	400	1.3	60	0.01	ITO-220AB
MURF1060S	10.0	600	1.8	150	0.03	ITO-220AB
MUR1605CT	16.0	50	0.975	100	0.005	TO-220AB
MUR1610CT	16.0	100	0.975	100	0.005	TO-220AB
MUR1615CT	16.0	150	0.975	100	0.005	TO-220AB
MUR1620CT	16.0	200	0.975	100	0.005	TO-220AB
MUR1640CT	16.0	400	1.3	100	0.01	TO-220AB
MUR1660CT	16.0	600	1.5	100	0.01	TO-220AB
MUR3040PT	30.0	400	1.25	150	0.01	TO-247AD
SF3060PT	30.0	600	2.5	300	0.01	TO-247AD
OTHERS						
SUF160-D2	1.0	600	1.70	25	0.001	DFN2X1.3

Diode/Rectifier --Schotty Diode

Part Number	IO Max (A)	VRRM Min (V)	VF Max (V)	IRM Max (uA)	IFSM Max (A)	Package
SURFACE MOUNT PACKAGE						
SS052D	0.5	20	0.34	10	10	DFN0805
SS053D	0.5	30	0.36	10	10	DFN0805
SD6PU100	6.0	100	0.65	30	120	DFN3X3
SD8PU100	8.0	100	0.67	20	120	DFN3X3
SD10PU80	10.0	80	0.61	50	100	DFN3X3
SD10PU100	10.0	100	0.73	20	150	DFN3X3
SD10PU120	10.0	120	0.85	10	100	DFN3X3
SD10PU200	10.0	200	1.05	10	160	DFN3X3
SD12	1.0	20	0.50	200	30	SOD-123
SD14	1.0	40	0.50	200	30	SOD-123
SD16	1.0	60	0.70	200	30	SOD-123
SD110	1.0	100	0.85	200	30	SOD-123
SD22	2.0	20	0.50	200	50	SOD-123
SD24	2.0	40	0.50	200	50	SOD-123
SD26	2.0	60	0.70	200	50	SOD-123
SD210	2.0	100	0.85	200	50	SOD-123
SD22FL	2.0	20	0.50	200	50	SOD-123
SD24FL	2.0	40	0.50	200	50	SOD-123
SD26FL	2.0	60	0.70	200	50	SOD-123
SD210FL	2.0	100	0.85	200	50	SOD-123
SD220FL	2.0	200	0.94	200	50	SOD-123
SD32	3.0	40	0.60	200	50	SOD-123
SD34	3.0	40	0.60	200	50	SOD-123
SD36	3.0	40	0.60	200	50	SOD-123
SD310	3.0	40	0.60	200	50	SOD-123
SD14ST	1.0	40	0.50	200	30	SOD-123
SD1U40ST	1.0	40	0.42	100	10	SOD-123
SD1U60ST	1.0	60	0.48	100	10	SOD-123
SD3U40ST	3.0	40	0.47	400	50	SOD-123
SD3U60ST	3.0	60	0.51	100	45	SOD-123
BS14FL	1.0	40	0.50	100	30	SOD-123
BS24FL	2.0	40	0.50	500	50	SOD-123
BL1200W	1.0	200	0.82	100	50	SOD-123
BAS54H	0.2	30	0.32	2.0	0.6	SOD-323
SD103AWS	0.35	40	0.37	5.0	1.5	SOD-323
SD103AWS	0.35	40	0.37	5.0	1.5	SOD-323
RB551V-30	0.5	30	0.47	100	2	SOD-323
BAT48-40	1.0	40	0.53	100	10	SOD-323
BAT48-60	1.0	60	0.69	100	10	SOD-323
SD0530WT	0.5	30	0.43	20	5.5	SOD-523
BAS54	0.2	30	0.32	2.0	0.6	SOT-23
BAS54A	0.2	30	0.32	2.0	0.6	SOT-23
BAS54C	0.2	30	0.32	2.0	0.6	SOT-23
BAS54S	0.2	30	0.32	2.0	0.6	SOT-23

Diode/Rectifier --Schotty Diode

Part Number	IO Max (A)	VRRM Min (V)	VF Max (V)	IRM Max (uA)	IFSM Max (A)	Package
BAS70	0.7	70	0.41	0.1	0.1	SOT-23
BAS70-04	0.7	70	0.41	0.1	0.1	SOT-23
BAS70-05	0.7	70	0.41	0.1	0.1	SOT-23
BAS70-06	0.7	70	0.41	0.1	0.1	SOT-23
BAS100	1.0	40	0.40	100	6	SOT-23
BAT43W	0.2	30	1.00	0.5	4	SOD-123
SS12	1.0	20	0.50	200	40	SMA
SS13	1.0	30	0.50	200	40	SMA
SS14	1.0	40	0.50	200	40	SMA
SS15	1.0	50	0.75	200	40	SMA
SS16	1.0	60	0.75	200	40	SMA
SS18	1.0	80	0.85	500	40	SMA
SS19	1.0	90	0.85	500	40	SMA
SS110	1.0	100	0.85	500	40	SMA
SS115	1.0	150	0.90	500	40	SMA
SS120	1.0	200	0.95	500	40	SMA
SSL12	1.0	20	0.36	100	50	SMA
SSL13	1.0	30	0.36	100	50	SMA
SSL14	1.0	40	0.38	100	50	SMA
SS22A	2.0	20	0.45	200	80	SMA
SS23A	2.0	30	0.45	200	80	SMA
SS24A	2.0	40	0.45	200	80	SMA
SS25A	2.0	50	0.70	200	80	SMA
SS26A	2.0	60	0.70	200	80	SMA
SS28A	2.0	80	0.80	200	80	SMA
SS29A	2.0	90	0.80	200	80	SMA
SS210A	2.0	100	0.80	200	80	SMA
SS215A	2.0	150	0.95	100	50	SMA
SS220A	2.0	200	0.90	100	50	SMA
SS24S	2.0	40	0.50	200	50	SMA
SS22AF	2.0	20	0.45	500	50	SMA
SS23AF	2.0	30	0.45	500	50	SMA
SS24AF	2.0	40	0.45	500	50	SMA
SS25AF	2.0	50	0.70	500	50	SMA
SS26AF	2.0	50	0.70	500	50	SMA
SS28AF	2.0	60	0.80	500	50	SMA
SS29AF	2.0	80	0.80	500	50	SMA
SS210AF	2.0	100	0.80	500	50	SMA
SS32A	3.0	20	0.50	500	80	SMA
SS33A	3.0	30	0.50	500	80	SMA
SS34A	3.0	40	0.50	500	80	SMA
SS35A	3.0	50	0.75	500	80	SMA
SS36A	3.0	60	0.75	500	80	SMA
SS38A	3.0	80	0.85	500	80	SMA
SS39A	3.0	90	0.85	500	80	SMA

Diode/Rectifier --Schotty Diode

Part Number	IO Max (A)	VRRM Min (V)	VF Max (V)	IRM Max (uA)	IFSM Max (A)	Package
SS310A	3.0	100	0.85	500	80	SMA
SS315A	3.0	150	0.95	100	70	SMA
SS34AF	3.0	40	0.50	500	80	SMA
SS34MA	3.0	40	0.53	50	80	SMA
SS36MA	3.0	60	0.60	300	80	SMA
SS52A	5.0	20	0.52	500	80	SMA
SS53A	5.0	30	0.52	500	80	SMA
SS54A	5.0	40	0.6	50	80	SMA
SS54AF	5.0	40	0.6	50	80	SMA
SS56MA	5.0	60	0.68	200	80	SMA
SS32B	3.0	20	0.50	500	100	SMB
SS33B	3.0	30	0.50	500	100	SMB
SS34B	3.0	40	0.50	500	100	SMB
SS35B	3.0	50	0.75	500	100	SMB
SS36B	3.0	60	0.75	500	100	SMB
SS38B	3.0	90	0.85	500	100	SMB
SS39B	3.0	90	0.85	500	100	SMB
SS3100B	3.0	100	0.85	100	100	SMB
SS315B	3.0	150	0.85	100	70	SMB
SSL32B	3.0	20	0.41	200	100	SMB
SSL33B	3.0	30	0.41	200	100	SMB
SSL34B	3.0	40	0.41	500	100	SMB
SS52B	5.0	20	0.52	500	150	SMB
SS53B	5.0	30	0.55	500	100	SMB
SS54B	5.0	40	0.55	500	100	SMB
SS55B	5.0	50	0.70	500	100	SMB
SS56B	5.0	60	0.70	500	100	SMB
SS59B	5.0	90	0.85	100	120	SMB
SS510B	5.0	100	0.85	100	120	SMB
SS515B	5.0	150	0.95	100	120	SMB
SS82B	8.0	20	0.55	500	150	SMB
SS86B	8.0	20	0.55	500	150	SMB
SS32C	3.0	20	0.50	100	100	SMC
SS33C	3.0	30	0.50	500	100	SMC
SS34C	3.0	40	0.50	500	100	SMC
SS35C	3.0	50	0.75	500	100	SMC
SS36C	3.0	60	0.75	500	100	SMC
SS38C	3.0	80	0.85	500	100	SMC
SS39C	3.0	90	0.85	500	100	SMC
SS3100C	3.0	100	0.85	500	70	SMC
SS3100H	3.0	100	0.80	200	100	SMC
SS315C	3.0	150	0.85	100	70	SMC
SSL32C	3.0	20	0.41	200	100	SMC
SSL33C	3.0	30	0.41	200	100	SMC
SSL34C	3.0	40	0.41	500	100	SMC

Diode/Rectifier --Schotty Diode

Part Number	IO Max (A)	VRRM Min (V)	VF Max (V)	IRM Max (uA)	IFSM Max (A)	Package
SS52C	5.0	20	0.55	500	120	SMC
SS53C	5.0	30	0.55	500	120	SMC
SS54C	5.0	40	0.55	500	120	SMC
SS55C	5.0	50	0.75	500	120	SMC
SS56C	5.0	60	0.75	500	120	SMC
SS59C	5.0	90	0.85	300	120	SMC
SS510C	5.0	100	0.85	300	120	SMC
SS515C	5.0	150	0.95	300	120	SMC
SS82C	8.0	20	0.55	500	150	SMC
SS86C	8.0	60	0.55	500	150	SMC
THROUGH HOLE PACKAGE						
MBR1020CT	10.0	20	0.50	100	120	TO-220AB
MBR1040CT	10.0	40	0.50	100	120	TO-220AB
MBR1050CT	10.0	50	0.60	100	120	TO-220AB
MBR1060CT	10.0	60	0.85	100	120	TO-220AB
MBR1080CT	10.0	80	0.85	100	120	TO-220AB
MBR10100CT	10.0	100	0.85	100	120	TO-220AB
MBR10150CT	10.0	150	0.75	100	120	TO-220AB
MBR10200CT	10.0	200	0.80	100	120	TO-220AB
MBR3040CT	15.0	40	0.70	500	200	TO-220AB
MBR2020CT	20.0	20	0.57	200	150	TO-220AB
MBR2040CT	20.0	40	0.57	200	150	TO-220AB
MBR20L45CT	20.0	45	0.54	200	200	TO-220AB
MBR2050CT	20.0	50	0.66	200	150	TO-220AB
MBR2060CT	20.0	60	0.66	200	150	TO-220AB
MBR2080CT	20.0	80	0.69	200	150	TO-220AB
MBR20100CT	20.0	100	0.69	200	150	TO-220AB
MBR20150CT	20.0	150	0.74	200	150	TO-220AB
MBR20200CT	20.0	200	0.74	200	150	TO-220AB
MBR20300CT	20.0	300	0.95	20	275	TO-220AB
MBR3020CT	30.0	20	0.54	200	200	TO-220AB
MBR3050CT	30.0	50	0.61	200	200	TO-220AB
MBR3060CT	30.0	60	0.61	200	200	TO-220AB
MBR3080CT	30.0	80	0.68	200	200	TO-220AB
MBR30100CT	30.0	100	0.68	200	200	TO-220AB
MBR30150CT	30.0	150	0.73	200	200	TO-220AB
MBR30200CT	30.0	200	0.73	200	200	TO-220AB
SBL3045C	30.0	45	0.57	1000	275	TO-220AB
TMBR10100CT	10.0	100	0.65	200	120	TO-220AB
TMBR2080CT	20.0	80	0.65	200	120	TO-220AB
TMBR20100CT	20.0	100	0.75	200	120	TO-220AB
TMBR30100CT	30.0	100	0.90	200	250	TO-220AB
TMBR30120CT	30.0	120	0.76	200	200	TO-220AB
TMBR30150CT	30.0	150	0.82	100	250	TO-220AB

Diode/Rectifier --Schotty Diode

Part Number	IO Max (A)	VRRM Min (V)	VF Max (V)	IRM Max (uA)	IFSM Max (A)	Package
MBRF1020CT	10.0	20	0.50	100	120	ITO-220AB
MBRF1040CT	10.0	40	0.50	100	120	ITO-220AB
MBRF1050CT	10.0	50	0.60	100	120	ITO-220AB
MBRF1060CT	10.0	60	0.85	100	120	ITO-220AB
MBRF1080CT	10.0	80	0.85	100	120	ITO-220AB
MBRF10100CT	10.0	100	0.85	100	120	ITO-220AB
MBRF10150CT	10.0	150	0.90	100	120	ITO-220AB
MBRF10200CT	10.0	200	0.90	100	120	ITO-220AB
MBRF2020CT	20.0	20	0.57	200	150	ITO-220AB
MBRF2040CT	20.0	40	0.57	200	150	ITO-220AB
MBRF20L45CT	20.0	45	0.54	200	200	ITO-220AB
MBRF2050CT	20.0	50	0.66	200	150	ITO-220AB
MBRF2060CT	20.0	60	0.66	200	150	ITO-220AB
MBRF2080CT	20.0	80	0.69	200	150	ITO-220AB
MBRF20100CT	20.0	100	0.69	200	150	ITO-220AB
MBRF20150CT	20.0	150	0.74	200	150	ITO-220AB
MBRF20200CT	20.0	200	1.05	10	100	ITO-220AB
MBRF3020CT	30.0	20	0.54	200	200	ITO-220AB
MBRF3040CT	30.0	40	0.54	200	200	ITO-220AB
MBRF3050CT	30.0	50	0.61	200	200	ITO-220AB
MBRF3060CT	30.0	60	0.61	200	200	ITO-220AB
MBRF3080CT	30.0	80	0.69	200	200	ITO-220AB
MBRF30100CT	30.0	100	0.69	200	200	ITO-220AB
MBRF30150CT	30.0	150	0.73	200	200	ITO-220AB
MBRF30200CT	30.0	200	0.90	100	250	ITO-220AB
SBLF3060C	30.0	60	0.70	500	180	ITO-220AB
SBLF3080C	30.0	80	0.82	500	180	ITO-220AB
TMBRF20150C	20.0	150	1.10	30	150	ITO-220AB
TMBRF30150C	30.0	150	0.82	100	250	ITO-220AB
SBL3040PT	30.0	40	0.55	1000	275	TO-247AD
MBRD6100CT	6.0	100	0.75	150	80	TO-252
SS5P100	5.0	100	0.85	15	150	TO-277
SS8P40	8.0	40	0.50	300	300	TO-277
SS8P60	8.0	60	0.60	300	300	TO-277
SS8P100	8.0	100	0.85	20	120	TO-277
SS10P20	10.0	20	0.51	300	300	TO-277
SS10P30	10.0	30	0.51	300	300	TO-277
SS10P40	10.0	40	0.51	300	300	TO-277
SS10P45	10.0	45	0.51	300	300	TO-277
SS10P60	10.0	60	0.63	300	300	TO-277
SS10P100	10.0	100	0.85	20	300	TO-277
SS12P40	12.0	40	0.51	300	300	TO-277
SS12P45	12.0	45	0.51	300	300	TO-277
SS12P60	12.0	60	0.65	300	300	TO-277
SS15P30	15.0	30	0.57	300	300	TO-277

Diode/Rectifier --Schottky Diode

Part Number	IO Max (A)	VRRM Min (V)	VF Max (V)	IRM Max (uA)	IFSM Max (A)	Package
SS6PU100	6.0	100	0.67	20	120	TO-277
SS8PU100	8.0	100	0.67	20	120	TO-277
SS10PU50	10.0	50	0.50	150	200	TO-277
SS10PU80	10.0	80	0.55	50	160	TO-277
SS10PU100	10.0	100	0.73	20	150	TO-277
SS20PU80	20.0	80	0.73	60	210	TO-277
SS10PU200S	10.0	200	0.77	10	160	TO-277
SS10PU100S	10.0	100	0.68	20	210	TO-277
SS10PU120S	10.0	120	0.73	20	210	TO-277
SS12PU120S	12.0	120	0.80	20	210	TO-277
AXIAL LEAD PACKAGE						
SB315	3.0	150	0.85	200	80	DO-201AD
SB52	5.0	20	0.55	500	100	DO-201AD
SB53	5.0	30	0.55	500	100	DO-201AD
SB54	5.0	40	0.55	500	100	DO-201AD
SB55	5.0	50	0.70	500	100	DO-201AD
SB56	5.0	60	0.70	500	100	DO-201AD
SB510	5.0	100	0.85	100	150	DO-201AD
SB510UL	5.0	100	0.43	20	210	DO-201AD
15SQ030	15.0	30	0.55	500	350	R-6
15SQ040	15.0	40	0.55	500	350	R-6
15SQ045	15.0	45	0.55	500	350	R-6
15SQ050	15.0	50	0.7	500	350	R-6
15AQ060	15.0	60	0.7	500	350	R-6
15SQ080	15.0	80	0.8	500	350	R-6
15SQ100	15.0	100	0.8	500	350	R-6
SS34DA	3.0	40	0.53	50	80	2010
SS36DA	3.0	60	0.60	200	80	2010

Diode/Rectifier

Small Signal Switching Diode

Part Number	Configuration	VRRM Min	VF Max	IRM Max	IF Max	Trr Max	Package
		(V)	(V)	(μ A)	(A)	(ns)	
1SS400	Single	90	1.2	0.1	0.1	4	SOD-523
BAS43W	Single	30	0.24	2.0	0.2	10	SOD-123
BAV16W	Single	75	1.0	1.0	0.15	4	SOD-123
1N4148W	Single	75	1.0	1.0	0.15	4	SOD-123
BAV19W	Single	100	1.0	0.1	0.2	50	SOD-123
BAV20W	Single	150	1.0	0.1	0.2	50	SOD-123
BAV21W	Single	200	1.0	0.1	0.2	50	SOD-123
BAT54H	Single	30	0.24	2.0	0.2	10	SOD-323
1N4148WS	Single	75	1.25	1.0	0.15	4	SOD-323
BAS16H	Single	75	1.25	1.0	0.15	5	SOD-323
1SS355	Single	90	1.2	0.1	0.1	4	SOD-323
BAS321	Single	200	1.25	1.0	0.25	50	SOD-323
BAV99	Single	80	1.25	0.5	0.2	6	SOT-23
BAS21	Single	250	1.0	1.0	0.2	50	SOT-23
BAT54	Single	30	0.20	2.0	0.2	5	SOD-23
BAT54A	Single	30	0.20	2.0	0.2	5	SOD-23
BAT54S	Single	30	0.20	2.0	0.2	5	SOD-23
BAT54C	Single	30	0.20	2.0	0.2	5	SOD-23
BAT54T	Single	30	0.24	2.0	0.2	5	SOT-523
BAT54AT	Dual	30	0.24	2.0	0.2	5	SOT-523
BAT54CT	Dual	30	0.24	2.0	0.2	5	SOT-523
BAT54ST	Dual	30	0.24	2.0	0.2	5	SOT-523
BAT54ADW	Single	30	0.32	2.0	0.3	5	SOT-363
BAT54BRW	Single	30	0.32	2.0	0.3	5	SOT-363
BAT54CDW	Single	30	0.32	2.0	0.3	5	SOT-363
BAT54SDW	Single	30	0.32	2.0	0.3	5	SOT-363
BAT54TW	Single	30	0.32	2.0	0.3	5	SOT-363
1N4148W-N	Single	75	1.0	1.0	0.15	4	1206
1N4148	Single	75	1.0	1.0	0.15	4	DO-35

Diode/Rectifier Zener Diode

Part Number	Zener Voltage VZ			Reverse Leakage Current Max (uA)	Power Max (W)	Zener (Ω)	Package
	Nom. V	Min. V	Max. V				
BZX84C2V4	2.40	2.20	2.60	50.0	0.225	100	SOT-23
BZX84C2V7	2.70	2.50	2.90	20.0	0.225	100	SOT-23
BZX84C3V0	3.00	2.80	3.20	10.0	0.225	95	SOT-23
BZX84C3V3	3.30	3.20	3.50	5.0	0.225	95	SOT-23
BZX84C3V6	3.60	3.40	3.80	5.0	0.225	90	SOT-23
BZX84C3V9	3.90	3.70	4.10	3.0	0.225	90	SOT-23
BZX84C4V3	4.30	4.00	4.60	3.0	0.225	90	SOT-23
BZX84C4V7	4.70	4.40	5.00	3.0	0.225	80	SOT-23
BZX84C5V1	5.10	4.80	5.40	2.0	0.225	60	SOT-23
BZX84C5V6	5.60	5.20	6.00	1.0	0.225	40	SOT-23
BZX84C6V2	6.20	5.80	6.00	3.0	0.225	10	SOT-23
BZX84C6V8	6.80	6.40	7.20	2.0	0.225	15	SOT-23
BZX84C7V5	7.50	7.00	7.90	1.0	0.225	15	SOT-23
BZX84C8V2	7.50	7.70	7.90	0.7	0.225	15	SOT-23
BZX84C9V1	9.10	8.50	9.60	0.5	0.225	15	SOT-23
BZX84C10	10.00	9.40	10.60	0.2	0.225	20	SOT-23
BZX84C11	11.0	10.4	11.6	0.1	0.225	20	SOT-23
BZX84C12	12.0	11.4	12.7	0.1	0.225	25	SOT-23
BZX84C13	13.0	12.4	14.1	0.1	0.225	30	SOT-23
BZX84C15	15.0	13.8	15.6	0.05	0.225	30	SOT-23
BZX84C16	16.0	15.3	17.1	0.05	0.225	40	SOT-23
BZX84C18	18.0	16.8	19.1	0.05	0.225	45	SOT-23
BZX84C20	20.0	18.8	21.2	0.05	0.225	55	SOT-23
BZX84C22	22.0	20.8	23.4	0.05	0.225	55	SOT-23
BZX84C24	4.0	22.8	25.6	0.05	0.225	70	SOT-23
BZX84C27	27.0	25.1	28.9	0.05	0.225	80	SOT-23
BZX84C30	30.0	28.0	32.0	0.05	0.225	80	SOT-23
BZX84C33	33.0	31.0	35.0	0.05	0.225	80	SOT-23
BZX84C36	36.0	34.0	38.0	0.05	0.225	90	SOT-23
BZX84C39	39.0	37.0	41.0	0.05	0.225	130	SOT-23
BZX84C43	43.0	40.0	46.0	0.05	0.225	150	SOT-23
BZX84C47	37.0	44.0	50.0	0.05	0.225	170	SOT-23
BZX84C51	51.0	48.0	54.0	0.05	0.225	180	SOT-23
BZX84C56	56.0	52.0	60.0	0.05	0.225	200	SOT-23
BZX84C62	62.0	58.0	66.0	0.05	0.225	215	SOT-23
BZX84C68	68.0	64.0	72.0	0.05	0.225	240	SOT-23
BZX84C75	75.0	70.0	79.0	0.05	0.225	255	SOT-23

Diode/Rectifier Zener Diode

Part Number	Zener Voltage VZ			Reverse Leakage Current Max (uA)	Power Max (W)	Zener (Ω)	Package
	Nom. V	Min. V	Max. V				
AZ23C2V7	2.70	2.50	2.90	-	0.300	83	SOT-23
AZ23C3V0	3.00	2.80	3.20	-	0.300	95	SOT-23
AZ23C3V3	3.30	3.10	3.50	-	0.300	95	SOT-23
AZ23C3V6	3.60	3.40	3.80	-	0.300	95	SOT-23
AZ23C3V9	3.90	3.70	4.20	-	0.300	95	SOT-23
AZ23C4V3	4.30	4.00	4.60	-	0.300	95	SOT-23
AZ23C4V7	4.70	4.40	5.00	-	0.300	78	SOT-23
AZ23C5V1	5.10	4.80	5.40	-	0.300	60	SOT-23
AZ23C5V6	5.60	5.20	6.00	-	0.300	40	SOT-23
AZ23C6V2	6.20	5.80	6.60	-	0.300	10	SOT-23
AZ23C6V8	6.80	0.40	7.20	-	0.300	8	SOT-23
AZ23C7V5	7.50	7.00	7.90	-	0.300	7	SOT-23
AZ23C8V2	8.20	7.70	8.70	-	0.300	7	SOT-23
AZ23C9V1	9.10	8.50	9.60	-	0.300	10	SOT-23
AZ23C10	10.0	9.4	10.6	-	0.300	15	SOT-23
AZ23C11	11.0	10.4	11.6	-	0.300	20	SOT-23
AZ23C12	12.0	11.4	12.7	-	0.300	20	SOT-23
AZ23C13	13.0	12.4	14.1	-	0.300	25	SOT-23
AZ23C15	15.0	13.8	15.6	-	0.300	30	SOT-23
AZ23C16	16.0	15.3	17.1	-	0.300	40	SOT-23
AZ23C18	18.0	16.8	19.1	-	0.300	50	SOT-23
AZ23C20	20.0	18.8	21.2	-	0.300	50	SOT-23
AZ23C22	22.0	20.8	23.3	-	0.300	55	SOT-23
AZ23C24	24.0	22.8	25.6	-	0.300	80	SOT-23
AZ23C27	27.0	25.1	28.9	-	0.300	80	SOT-23
AZ23C30	30.0	28.0	32.0	-	0.300	80	SOT-23
AZ23C33	33.0	31.0	35.0	-	0.300	80	SOT-23
AZ23C36	36.0	34.0	38.0	-	0.300	90	SOT-23
AZ23C39	39.0	37.0	41.0	-	0.300	90	SOT-23
AZ23C43	43.0	40.0	46.0	-	0.300	100	SOT-23
AZ23C47	47.0	44.0	50.0	-	0.300	100	SOT-23
AZ23C51	51.0	48.0	54.0	-	0.300	100	SOT-23

Diode/Rectifier Zener Diode

Part Number	Zener Voltage VZ			Reverse Leakage Current Max (uA)	Power Max (W)	Zener (Ω)	Package
	Nom. V	Min. V	Max. V				
DZ23C2V4	2.40	2.28	2.52	100.0	0.300	85	SOT-23
DZ23C2V7	2.70	2.57	2.84	75.0	0.300	83	SOT-23
DZ23C3V0	3.00	2.85	3.15	50.0	0.300	95	SOT-23
DZ23C3V3	3.30	3.14	3.47	25.0	0.300	95	SOT-23
DZ23C3V6	3.60	3.42	3.78	15.0	0.300	95	SOT-23
DZ23C3V9	3.90	3.71	4.10	10.0	0.300	95	SOT-23
DZ23C4V3	4.30	4.09	4.52	5.0	0.300	95	SOT-23
DZ23C4V7	4.70	4.47	4.94	5.0	0.300	78	SOT-23
DZ23C5V1	5.10	4.85	5.36	0.1	0.300	60	SOT-23
DZ23C5V6	5.60	5.32	5.88	0.1	0.300	40	SOT-23
DZ23C6V2	6.20	5.89	6.51	0.1	0.300	10	SOT-23
DZ23C6V8	6.80	6.46	7.14	0.1	0.300	8	SOT-23
DZ23C7V5	7.50	7.13	7.88	0.1	0.300	7	SOT-23
DZ23C8V2	8.20	7.79	8.61	0.1	0.300	7	SOT-23
DZ23C9V1	9.10	8.65	9.56	0.1	0.300	10	SOT-23
DZ23C10	10.00	9.50	10.50	0.1	0.300	15	SOT-23
DZ23C11	11.00	10.45	11.55	0.1	0.300	20	SOT-23
DZ23C12	12.00	11.40	12.60	0.1	0.300	20	SOT-23
DZ23C13	13.00	12.35	13.65	0.1	0.300	25	SOT-23
DZ23C14	14.00	13.30	14.70	0.1	0.300	25	SOT-23
DZ23C15	15.00	14.25	15.75	0.1	0.300	30	SOT-23
DZ23C16	16.00	15.20	16.80	0.1	0.300	40	SOT-23
DZ23C17	17.00	16.15	17.85	0.1	0.300	40	SOT-23
DZ23C18	19.00	17.10	18.90	0.1	0.300	50	SOT-23
DZ23C20	20.00	19.00	21.00	0.1	0.300	50	SOT-23
DZ23C22	22.00	20.90	23.10	0.1	0.300	55	SOT-23
DZ23C24	24.00	22.80	25.02	0.1	0.300	80	SOT-23
DZ23C26	26.00	25.65	28.35	0.1	0.300	80	SOT-23
DZ23C28	28.00	26.60	29.40	0.1	0.300	80	SOT-23
DZ23C30	30.00	28.50	31.50	0.1	0.300	80	SOT-23
DZ23C33	33.00	31.35	34.65	0.1	0.300	80	SOT-23
DZ23C36	36.00	34.20	37.80	0.1	0.300	90	SOT-23
DZ23C39	39.00	37.05	40.95	0.1	0.300	90	SOT-23
DZ23C43	43.00	40.85	45.15	0.1	0.300	100	SOT-23
DZ23C47	47.00	44.65	49.35	0.1	0.300	100	SOT-23
DZ23C51	51.00	48.45	53.55	0.1	0.300	100	SOT-23
DZ23C56	56.00	53.20	58.80	0.1	0.300	135	SOT-23
DZ23C62	62.00	58.90	65.10	0.1	0.300	150	SOT-23
DZ23C68	68.00	64.60	71.40	0.1	0.300	200	SOT-23
DZ23C75	75.00	71.25	78.75	0.1	0.300	250	SOT-23

Diode/Rectifier Zener Diode

Part Number	Zener Voltage VZ			Reverse Leakage Current Max (uA)	Power Max (W)	Zener (Ω)	Package
	Nom. V	Min. V	Max. V				
BZT52C2V0S	2.00	1.91	2.09	150.0	0.200	100	SOD-323
BZT52C2V4S	2.40	2.20	2.60	50.0	0.200	100	SOD-323
BZT52C2V7S	2.70	2.50	2.90	20.0	0.200	100	SOD-323
BZT52C3V0S	3.00	2.80	3.20	10.0	0.200	95	SOD-323
BZT52C3V3S	3.30	3.10	3.50	5.0	0.200	95	SOD-323
BZT52C3V6S	3.60	3.40	3.80	5.0	0.200	90	SOD-323
BZT52C3V9S	3.90	3.70	4.10	3.0	0.200	90	SOD-323
BZT52C4V3S	4.30	4.00	4.60	3.0	0.200	90	SOD-323
BZT52C4V7S	4.70	4.40	5.00	3.0	0.200	80	SOD-323
BZT52C5V1S	5.10	4.80	5.40	2.0	0.200	60	SOD-323
BZT52C5V6S	5.60	5.20	6.00	1.0	0.200	40	SOD-323
BZT52C6V2S	6.20	5.80	6.60	3.0	0.200	10	SOD-323
BZT52C6V8S	6.80	6.40	7.20	2.0	0.200	15	SOD-323
BZT52C7V5S	7.50	7.00	7.90	1.0	0.200	15	SOD-323
BZT52C8V2S	8.20	7.70	8.70	0.7	0.200	15	SOD-323
BZT52C9V1S	9.10	8.50	9.60	0.5	0.200	15	SOD-323
BZT52C10S	10.00	9.40	10.60	0.2	0.200	20	SOD-323
BZT52C11S	11.00	10.40	11.60	0.1	0.200	20	SOD-323
BZT52C12S	12.00	11.40	12.70	0.1	0.200	25	SOD-323
BZT52C13S	13.00	12.40	14.10	0.1	0.200	30	SOD-323
BZT52C15S	15.00	13.80	15.60	0.1	0.200	30	SOD-323
BZT52C16S	16.00	15.30	17.10	0.1	0.200	40	SOD-323
BZT52C18S	18.00	16.80	19.10	0.1	0.200	45	SOD-323
BZT52C20S	20.00	18.80	21.20	0.1	0.200	55	SOD-323
BZT52C22S	22.00	20.80	23.30	0.1	0.200	55	SOD-323
BZT52C24S	24.00	22.80	25.60	0.1	0.200	70	SOD-323
BZT52C27S	27.00	25.10	28.90	0.1	0.200	80	SOD-323
BZT52C30S	30.00	28.00	32.00	0.1	0.200	80	SOD-323
BZT52C33S	33.00	31.00	35.00	0.1	0.200	80	SOD-323
BZT52C36S	36.00	34.00	38.00	0.1	0.200	90	SOD-323
BZT52C39S	39.00	37.00	41.00	0.1	0.200	130	SOD-323

Diode/Rectifier Zener Diode

Part Number	Zener Voltage VZ			Reverse Leakage Current Max (uA)	Power Max (W)	Zener (Ω)	Package
	Nom. V	Min. V	Max. V				
BZX52C2V4	2.40	2.20	2.60	50.0	0.200	100	SOD-323
BZX52C2V7	2.70	2.50	2.90	20.0	0.200	100	SOD-323
BZX52C3V0	3.00	2.80	3.20	10.0	0.200	95	SOD-323
BZX52C3V3	3.30	3.10	3.50	5.0	0.200	95	SOD-323
BZX52C3V6	3.60	3.40	3.80	5.0	0.200	90	SOD-323
BZX52C3V9	3.90	3.70	4.10	3.0	0.200	90	SOD-323
BZX52C4V3	4.30	4.00	4.60	3.0	0.200	90	SOD-323
BZX52C4V7	4.70	4.40	5.00	3.0	0.200	80	SOD-323
BZX52C5V1	5.10	4.80	5.40	2.0	0.200	60	SOD-323
BZX52C5V6	5.60	5.20	6.00	1.0	0.200	40	SOD-323
BZX52C6V2	6.20	5.80	6.60	3.0	0.200	10	SOD-323
BZX52C6V8	6.80	6.40	7.20	2.0	0.200	15	SOD-323
BZX52C7V5	7.50	7.00	7.90	1.0	0.200	15	SOD-323
BZX52C8V2	8.20	7.70	8.70	0.7	0.200	15	SOD-323
BZX52C9V1	9.10	8.50	9.60	0.5	0.200	15	SOD-323
BZX52C10	10.00	9.40	10.60	0.2	0.200	20	SOD-323
BZX52C11	11.00	10.40	11.60	0.1	0.200	20	SOD-323
BZX52C12	12.00	11.40	12.70	0.1	0.200	25	SOD-323
BZX52C13	13.00	12.40	14.10	0.1	0.200	30	SOD-323
BZX52C15	15.00	13.80	15.60	0.05	0.200	30	SOD-323
BZX52C16	16.00	15.30	17.10	0.05	0.200	40	SOD-323
BZX52C18	18.00	16.80	19.10	0.05	0.200	45	SOD-323
BZX52C20	20.00	18.80	21.20	0.05	0.200	55	SOD-323
BZX52C22	22.00	20.80	23.30	0.05	0.200	55	SOD-323
BZX52C24	24.00	22.80	25.60	0.05	0.200	70	SOD-323
BZX52C27	27.00	25.10	28.90	0.05	0.200	80	SOD-323
BZX52C30	30.00	28.00	32.00	0.05	0.200	80	SOD-323
BZX52C33	33.00	31.00	35.00	0.05	0.200	80	SOD-323
BZX52C36	36.00	34.00	38.00	0.05	0.200	90	SOD-323
BZX52C39	39.00	37.00	41.00	0.05	0.200	130	SOD-323
BZX52C43	43.00	40.00	46.00	0.05	0.200	130	SOD-323
BZX52C47	47.00	44.00	50.00	0.05	0.200	150	SOD-323
BZX52C51	51.00	48.00	54.00	0.05	0.200	180	SOD-323
BZX52C56	56.00	52.00	60.00	0.05	0.200	180	SOD-323
BZX52C62	62.00	58.00	66.00	0.05	0.200	200	SOD-323
BZX52C68	68.00	64.00	72.00	0.05	0.200	250	SOD-323
BZX52C75	75.00	70.00	79.00	0.05	0.200	300	SOD-323

Diode/Rectifier Zener Diode

Part Number	Zener Voltage VZ			Reverse Leakage Current Max (uA)	Power Max (W)	Zener (Ω)	Package
	Nom. V	Min. V	Max. V				
MM3Z2V0	2.00	1.80	2.15	120.0	0.300	100	SOD-323
MM3Z2V2	2.20	2.08	2.33	120.0	0.300	100	SOD-323
MM3Z2V4	2.40	2.28	2.56	120.0	0.300	100	SOD-323
MM3Z2V7	2.70	2.50	2.90	120.0	0.300	110	SOD-323
MM3Z3V0	3.00	2.80	3.20	50.0	0.300	120	SOD-323
MM3Z3V3	3.30	3.10	3.50	20.0	0.300	130	SOD-323
MM3Z3V6	3.60	3.40	3.80	10.0	0.300	130	SOD-323
MM3Z3V9	3.90	3.70	4.10	5.0	0.300	130	SOD-323
MM3Z4V3	4.30	4.00	4.60	5.0	0.300	130	SOD-323
MM3Z4V7	4.70	4.40	5.00	2.0	0.300	130	SOD-323
MM3Z5V1	5.10	4.80	5.40	2.0	0.300	130	SOD-323
MM3Z5V6	5.60	5.20	6.00	1.0	0.300	80	SOD-323
MM3Z6V2	6.20	5.80	6.60	1.0	0.300	50	SOD-323
MM3Z6V8	6.80	6.40	7.20	0.5	0.300	30	SOD-323
MM3Z7V5	7.50	7.00	7.90	0.5	0.300	30	SOD-323
MM3Z8V2	8.20	7.70	8.70	0.5	0.300	30	SOD-323
MM3Z9V1	9.10	8.50	9.60	0.5	0.300	30	SOD-323
MM3Z10	10.00	9.40	10.60	0.1	0.300	30	SOD-323
MM3Z11	11.00	10.40	11.6	0.1	0.300	30	SOD-323
MM3Z12	12.00	11.40	12.70	0.1	0.300	35	SOD-323
MM3Z13	13.00	12.40	14.10	0.1	0.300	35	SOD-323
MM3Z15	15.00	13.80	15.80	0.1	0.300	40	SOD-323
MM3Z16	16.00	15.30	17.10	0.1	0.300	40	SOD-323
MM3Z18	18.00	16.80	19.10	0.1	0.300	45	SOD-323
MM3Z20	20.00	18.80	21.20	0.1	0.300	50	SOD-323
MM3Z22	22.00	20.80	23.30	0.1	0.300	55	SOD-323
MM3Z24	24.00	22.80	25.60	0.1	0.300	60	SOD-323
MM3Z27	27.00	25.10	28.90	0.1	0.300	70	SOD-323
MM3Z30	30.00	28.00	32.00	0.1	0.300	80	SOD-323
MM3Z33	33.00	31.00	35.00	0.1	0.300	80	SOD-323
MM3Z36	36.00	34.00	38.00	0.1	0.300	90	SOD-323
MM3Z39	39.00	37.00	41.00	2.0	0.300	100	SOD-323
MM3Z43	43.00	40.00	46.00	2.0	0.300	130	SOD-323
MM3Z47	47.00	44.00	50.00	2.0	0.300	150	SOD-323
MM3Z51	51.00	48.00	54.00	1.0	0.300	180	SOD-323
MM3Z56	56.00	52.00	60.00	1.0	0.300	180	SOD-323
MM3Z62	62.00	58.00	66.00	0.2	0.300	200	SOD-323
MM3Z68	68.00	64.00	72.00	0.2	0.300	250	SOD-323
MM3Z75	75.00	70.00	79.00	0.2	0.300	300	SOD-323
RSB18V	18.00	16.20	19.80	0.1	0.200	100	SOD-323

Diode/Rectifier Zener Diode

Part Number	Zener Voltage VZ			Reverse Leakage Current Max (uA)	Power Max (W)	Zener (Ω)	Package
	Nom. V	Min. V	Max. V				
MMSZ4685	3.60	3.42	3.78	7.5	0.500	-	SOD-123
MMSZ4686	3.90	3.71	4.10	5.0	0.500	-	SOD-123
MMSZ4687	4.30	4.09	4.52	4.0	0.500	-	SOD-123
MMSZ4688	4.70	4.47	4.94	10.0	0.500	-	SOD-123
MMSZ4689	5.10	4.85	5.36	10.0	0.500	-	SOD-123
MMSZ4690	5.60	5.32	5.88	10.0	0.500	-	SOD-123
MMSZ4691	6.20	5.89	6.51	10.0	0.500	-	SOD-123
MMSZ4692	6.80	6.46	7.14	10.0	0.500	-	SOD-123
MMSZ4693	7.50	7.13	7.88	10.0	0.500	-	SOD-123
MMSZ4694	8.20	7.79	8.61	1.0	0.500	-	SOD-123
MMSZ4695	8.70	8.27	9.14	1.0	0.500	-	SOD-123
MMSZ4696	9.10	8.65	9.56	1.0	0.500	-	SOD-123
MMSZ4697	10.00	9.50	10.50	1.0	0.500	-	SOD-123
MMSZ4698	11.00	10.50	11.60	0.1	0.500	-	SOD-123
MMSZ4699	12.00	11.40	12.60	0.1	0.500	-	SOD-123
MMSZ4700	13.00	12.40	13.70	0.1	0.500	-	SOD-123
MMSZ4701	14.00	13.30	14.70	0.1	0.500	-	SOD-123
MMSZ4702	15.00	14.30	15.80	0.1	0.500	-	SOD-123
MMSZ4703	16.00	15.20	16.80	0.1	0.500	-	SOD-123
MMSZ4704	17.00	16.20	17.90	0.1	0.500	-	SOD-123
MMSZ4705	18.00	17.10	18.90	0.1	0.500	-	SOD-123
MMSZ4706	19.00	18.11	20.00	0.1	0.500	-	SOD-123
MMSZ4707	20.00	19.00	21.00	0.0	0.500	-	SOD-123
MMSZ4708	22.00	20.90	23.10	0.0	0.500	-	SOD-123
MMSZ4709	24.00	22.80	25.20	0.0	0.500	-	SOD-123
MMSZ4710	25.00	23.80	26.30	0.0	0.500	-	SOD-123
MMSZ4711	27.00	25.70	28.40	0.0	0.500	-	SOD-123
MMSZ4712	28.00	26.60	29.40	0.0	0.500	-	SOD-123
MMSZ4713	30.00	28.50	31.50	0.0	0.500	-	SOD-123
MMSZ4714	33.00	31.40	34.70	0.0	0.500	-	SOD-123
MMSZ4715	36.00	34.20	37.80	0.0	0.500	-	SOD-123
MMSZ4716	39.00	37.10	41.00	0.0	0.500	-	SOD-123
MMSZ4717	43.00	40.90	45.20	0.0	0.500	-	SOD-123

Diode/Rectifier Zener Diode

Part Number	Zener Voltage VZ			Reverse Leakage Current Max (uA)	Power Max (W)	Zener (Ω)	Package
	Nom. V	Min. V	Max. V				
BZT52C2V0	2.00	1.91	2.09	150.0	0.500	100	SOD-123
BZT52C2V4	2.40	2.20	2.60	50.0	0.500	100	SOD-123
BZT52C2V7	2.70	2.50	2.90	20.0	0.500	100	SOD-123
BZT52C3V0	3.00	2.80	3.20	10.0	0.500	95	SOD-123
BZT52C3V3	3.30	3.10	3.50	5.0	0.500	95	SOD-123
BZT52C3V6	3.60	3.40	3.80	5.0	0.500	90	SOD-123
BZT52C3V9	3.90	3.70	4.10	3.0	0.500	90	SOD-123
BZT52C4V3	4.30	4.00	4.60	3.0	0.500	90	SOD-123
BZT52C4V7	4.70	4.40	5.00	3.0	0.500	80	SOD-123
BZT52C5V1	5.10	4.80	5.40	2.0	0.500	60	SOD-123
BZT52C5V6	5.60	5.20	6.00	1.0	0.500	40	SOD-123
BZT52C6V2	6.20	5.80	6.60	3.0	0.500	10	SOD-123
BZT52C6V8	6.80	6.40	7.20	2.0	0.500	15	SOD-123
BZT52C7V5	7.50	7.00	7.90	1.0	0.500	15	SOD-123
BZT52C8V2	8.20	7.70	8.70	0.7	0.500	15	SOD-123
BZT52C9V1	9.10	8.50	9.60	0.5	0.500	15	SOD-123
BZT52C10	10.00	9.40	10.60	0.2	0.500	20	SOD-123
BZT52C11	11.00	10.40	11.60	0.1	0.500	20	SOD-123
BZT52C12	12.00	11.40	12.70	0.1	0.500	25	SOD-123
BZT52C13	13.00	12.40	14.10	0.1	0.500	30	SOD-123
BZT52C15	15.00	13.80	15.60	0.1	0.500	30	SOD-123
BZT52C16	16.00	15.30	17.10	0.1	0.500	40	SOD-123
BZT52C18	18.00	16.80	19.10	0.1	0.500	45	SOD-123
BZT52C20	20.00	18.80	21.20	0.1	0.500	55	SOD-123
BZT52C22	22.00	20.80	23.30	0.1	0.500	55	SOD-123
BZT52C24	24.00	22.80	25.60	0.1	0.500	70	SOD-123
BZT52C27	27.00	25.10	28.90	0.1	0.500	80	SOD-123
BZT52C30	30.00	28.00	32.00	0.1	0.500	80	SOD-123
BZT52C33	33.00	31.00	35.00	0.1	0.500	80	SOD-123
BZT52C36	36.00	34.00	38.00	0.1	0.500	90	SOD-123
BZT52C39	39.00	37.00	41.00	0.1	0.500	130	SOD-123
BZT52C43	43.00	40.00	46.00	0.1	0.500	100	SOD-123
BZT52C47	47.00	44.00	50.00	0.1	0.500	100	SOD-123
BZT52C51	57.00	48.00	54.00	0.1	0.500	100	SOD-123

Diode/Rectifier Zener Diode

Part Number	Zener Voltage VZ			Reverse Leakage Current Max (uA)	Power Max (W)	Zener (Ω)	Package
	Nom. V	Min. V	Max. V				
BZT52B2V4	2.40	2.35	2.45	-	0.500	85	SOD-123
BZT52B2V7	2.70	2.65	2.75	-	0.500	83	SOD-123
BZT52B3V0	3.00	2.94	3.06	-	0.500	95	SOD-123
BZT52B3V3	3.30	3.23	3.37	-	0.500	95	SOD-123
BZT52B3V6	3.60	3.53	3.67	-	0.500	95	SOD-123
BZT52B3V9	3.90	3.82	3.98	-	0.500	95	SOD-123
BZT52B4V3	4.30	4.21	4.39	-	0.500	95	SOD-123
BZT52B4V7	4.70	4.61	4.79	-	0.500	78	SOD-123
BZT52B5V1	5.10	5.00	5.20	-	0.500	60	SOD-123
BZT52B5V6	5.60	5.49	5.71	-	0.500	40	SOD-123
BZT52B6V2	6.20	6.08	6.32	-	0.500	10	SOD-123
BZT52B6V8	6.80	6.66	6.94	-	0.500	8	SOD-123
BZT52B7V5	7.50	7.35	7.65	-	0.500	7	SOD-123
BZT52B8V2	8.20	8.04	8.36	-	0.500	7	SOD-123
BZT52B9V1	9.10	8.92	9.28	-	0.500	10	SOD-123
BZT52B10	10.00	9.80	10.20	-	0.500	15	SOD-123
BZT52B11	11.00	10.80	11.20	-	0.500	20	SOD-123
BZT52B12	12.00	11.80	12.20	-	0.500	20	SOD-123
BZT52B13	13.00	12.70	13.30	-	0.500	25	SOD-123
BZT52B15	15.00	14.70	15.30	-	0.500	30	SOD-123
BZT52B16	16.00	15.70	16.30	-	0.500	40	SOD-123
BZT52B18	18.00	17.60	18.40	-	0.500	50	SOD-123
BZT52B20	20.00	19.60	20.40	-	0.500	50	SOD-123
BZT52B22	22.00	21.60	22.40	-	0.500	55	SOD-123
BZT52B24	24.00	23.50	24.50	-	0.500	80	SOD-123
BZT52B27	27.00	26.50	27.50	-	0.500	80	SOD-123
BZT52B30	30.00	29.40	30.60	-	0.500	80	SOD-123
BZT52B33	33.00	32.30	33.70	-	0.500	80	SOD-123
BZT52B36	36.00	35.30	36.70	-	0.500	90	SOD-123
BZT52B39	39.00	38.20	39.80	-	0.500	90	SOD-123
BZT52B43	43.00	42.10	43.90	-	0.500	100	SOD-123
BZT52B47	47.00	46.10	47.90	-	0.500	100	SOD-123
BZT52B51	51.00	50.00	52.00	-	0.500	100	SOD-123

Diode/Rectifier Zener Diode

Part Number	Zener Voltage VZ			Reverse Leakage Current Max (uA)	Power Max (W)	Zener (Ω)	Package
	Nom. V	Min. V	Max. V				
MMSZ5221B	2.40	2.28	2.52	100.0	0.500	30	SOD-123
MMSZ5223B	2.70	2.57	2.84	75.0	0.500	30	SOD-123
MMSZ5225B	3.00	2.85	3.15	50.0	0.500	30	SOD-123
MMSZ5226B	3.30	3.14	3.47	25.0	0.500	28	SOD-123
MMSZ5227B	3.60	3.42	3.78	15.0	0.500	24	SOD-123
MMSZ5228B	3.90	3.71	4.10	10.0	0.500	23	SOD-123
MMSZ5229B	4.30	4.09	4.52	5.0	0.500	22	SOD-123
MMSZ5230B	4.70	4.47	4.94	5.0	0.500	19	SOD-123
MMSZ5231B	5.10	4.85	5.36	5.0	0.500	17	SOD-123
MMSZ5232B	5.60	5.32	5.88	5.0	0.500	11	SOD-123
MMSZ5233B	6.00	5.70	6.30	5.0	0.500	7	SOD-123
MMSZ5234B	6.20	5.89	6.51	5.0	0.500	7	SOD-123
MMSZ5235B	6.80	6.46	7.14	3.0	0.500	5	SOD-123
MMSZ5236B	7.50	7.13	7.88	3.0	0.500	6	SOD-123
MMSZ5237B	8.20	7.79	8.61	3.0	0.500	8	SOD-123
MMSZ5238B	8.70	8.27	9.14	3.0	0.500	8	SOD-123
MMSZ5239B	9.10	8.65	9.56	3.0	0.500	10	SOD-123
MMSZ5240B	10.00	9.50	10.50	3.0	0.500	17	SOD-123
MMSZ5241B	11.00	10.45	11.55	2.0	0.500	22	SOD-123
MMSZ5242B	12.00	11.40	12.60	1.0	0.500	30	SOD-123
MMSZ5243B	13.00	12.35	13.65	0.5	0.500	13	SOD-123
MMSZ5245B	15.00	14.25	15.75	0.1	0.500	16	SOD-123
MMSZ5246B	16.00	15.20	16.80	0.1	0.500	17	SOD-123
MMSZ5248B	18.00	17.10	18.90	0.1	0.500	21	SOD-123
MMSZ5250B	20.00	19.00	21.00	0.1	0.500	25	SOD-123
MMSZ5251B	22.00	20.90	23.10	0.1	0.500	29	SOD-123
MMSZ5252B	24.00	22.80	25.20	0.1	0.500	33	SOD-123
MMSZ5254B	27.00	25.65	28.35	0.1	0.500	41	SOD-123
MMSZ5255B	28.00	26.60	29.40	0.1	0.500	44	SOD-123
MMSZ5256B	30.00	28.50	31.50	0.1	0.500	49	SOD-123
MMSZ5257B	33.00	33.00	31.35	0.1	0.500	58	SOD-123
MMSZ5258B	36.00	36.00	34.20	0.1	0.500	70	SOD-123
MMSZ5259B	39.00	39.00	37.05	0.1	0.500	80	SOD-123
MMSZ5260B	43.00	43.00	40.85	0.1	0.500	93	SOD-123

Diode/Rectifier Zener Diode

Part Number	Zener Voltage VZ			Reverse Leakage Current Max (uA)	Power Max (W)	Zener (Ω)	Package
	Nom. V	Min. V	Max. V				
1N4729AW	3.60	3.24	3.96	100.0	1.0	10	SOD-123
1N4730AW	3.90	3.51	4.29	50.0	1.0	9	SOD-123
1N4731AW	4.30	3.87	4.73	10.0	1.0	9	SOD-123
1N4732AW	4.70	4.23	5.17	10.0	1.0	8	SOD-123
1N4733AW	5.10	4.59	5.61	10.0	1.0	7	SOD-123
1N4734AW	5.60	5.04	6.16	10.0	1.0	5	SOD-123
1N4735AW	6.20	5.58	6.82	10.0	1.0	2	SOD-123
1N4736AW	6.80	6.12	7.48	10.0	1.0	3.5	SOD-123
1N4737AW	7.50	6.75	8.25	10.0	1.0	4	SOD-123
1N4738AW	8.20	7.38	9.02	10.0	1.0	4.5	SOD-123
1N4739AW	9.10	8.19	10.01	10.0	1.0	5	SOD-123
1N4740AW	10.00	9.00	11.00	5.0	1.0	7	SOD-123
1N4741AW	11.00	9.90	12.10	5.0	1.0	8	SOD-123
1N4742AW	12.00	10.80	13.20	5.0	1.0	9	SOD-123
1N4743AW	13.00	11.70	14.30	5.0	1.0	10	SOD-123
1N4744AW	15.00	13.50	16.50	5.0	1.0	14	SOD-123
1N4745AW	16.00	14.40	17.60	5.0	1.0	16	SOD-123
1N4746AW	18.00	16.20	19.80	5.0	1.0	20	SOD-123
1N4747AW	20.00	18.00	22.00	5.0	1.0	22	SOD-123
1N4748AW	22.00	19.80	24.20	5.0	1.0	23	SOD-123
1N4749AW	24.00	21.60	26.40	5.0	1.0	25	SOD-123
1N4750AW	27.00	24.30	29.70	5.0	1.0	35	SOD-123
1N4751AW	30.00	27.00	33.00	5.0	1.0	40	SOD-123
1N4752AW	33.00	29.70	36.30	5.0	1.0	45	SOD-123
1N4753AW	36.00	32.40	39.60	5.0	1.0	50	SOD-123
1N4754AW	39.00	35.10	42.90	5.0	1.0	60	SOD-123
1N4755AW	43.00	38.70	47.30	5.0	1.0	70	SOD-123
1N4756AW	47.00	42.30	51.70	5.0	1.0	80	SOD-123
1N4757AW	51.00	45.90	56.10	5.0	1.0	95	SOD-123
1N4758AW	56.00	50.40	61.60	5.0	1.0	110	SOD-123
1N4759AW	62.00	55.80	68.20	5.0	1.0	125	SOD-123
1N4760AW	68.00	61.20	74.80	5.0	1.0	150	SOD-123
1N4761AW	75.00	67.50	82.50	5.0	1.0	175	SOD-123

Diode/Rectifier Zener Diode

Part Number	Zener Voltage VZ			Reverse Leakage Current Max (uA)	Power Max (W)	Zener (Ω)	Package
	Nom. V	Min. V	Max. V				
SZ103D	3.30	2.97	3.63	100.0	1.0	10	SMA
SZ103G	3.60	3.24	3.96	100.0	1.0	10	SMA
SZ103J	3.90	3.51	4.29	50.0	1.0	9	SMA
SZ104D	4.30	3.87	4.73	10.0	1.0	9	SMA
SZ104H	4.70	4.23	5.17	10.0	1.0	8	SMA
SZ105B	5.10	4.59	5.61	10.0	1.0	7	SMA
SZ105G	5.60	5.04	6.16	10.0	1.0	5	SMA
SZ106C	6.20	5.58	6.82	10.0	1.0	2	SMA
SZ106I	6.80	6.12	7.48	10.0	1.0	3.5	SMA
SZ107F	7.50	6.75	8.25	10.0	1.0	4	SMA
SZ108C	8.20	7.38	9.02	10.0	1.0	4.5	SMA
SZ109B	9.10	8.19	10.01	10.0	1.0	5	SMA
SZ1010	10.00	9.00	11.00	5.0	1.0	7	SMA
SZ1011	11.00	9.90	12.10	5.0	1.0	8	SMA
SZ1012	12.00	10.80	13.20	5.0	1.0	9	SMA
SZ1013	13.00	11.70	14.30	5.0	1.0	10	SMA
SZ1015	15.00	13.50	16.50	5.0	1.0	14	SMA
SZ1016	16.00	14.40	17.60	5.0	1.0	16	SMA
SZ1018	18.00	16.20	19.80	5.0	1.0	20	SMA
SZ1020	20.00	18.00	22.00	5.0	1.0	22	SMA
SZ1022	22.00	19.80	24.20	5.0	1.0	23	SMA
SZ1024	24.00	21.60	26.40	5.0	1.0	25	SMA
SZ1027	27.00	24.30	29.70	5.0	1.0	35	SMA
SZ1030	30.00	27.00	33.00	5.0	1.0	40	SMA
SZ1033	33.00	29.70	36.30	5.0	1.0	45	SMA
SZ1036	36.00	32.40	39.60	5.0	1.0	50	SMA
SZ1039	39.00	35.10	42.90	5.0	1.0	60	SMA
SZ1043	43.00	38.70	47.30	5.0	1.0	70	SMA
SZ1047	47.00	42.30	51.70	5.0	1.0	80	SMA
SZ1051	51.00	45.90	56.10	5.0	1.0	95	SMA
SZ1056	56.00	50.40	61.60	5.0	1.0	110	SMA
SZ1062	62.00	55.80	68.20	5.0	1.0	125	SMA
SZ1068	68.00	61.20	74.80	5.0	1.0	150	SMA
SZ1075	75.00	67.50	82.50	5.0	1.0	175	SMA
SZ1082	82.00	73.80	90.20	5.0	1.0	200	SMA
SZ1091	91.00	81.90	100.10	5.0	1.0	250	SMA
SZ10B0	100.00	90.00	110.00	5.0	1.0	350	SMA
SZ10B1	110.00	99.00	121.00	5.0	1.0	450	SMA
SZ10B2	120.00	108.00	132.00	5.0	1.0	550	SMA
SZ10B3	130.00	117.00	143.00	5.0	1.0	700	SMA
SZ10B5	150.00	135.00	165.00	5.0	1.0	1000	SMA
SZ10B6	160.00	144.00	176.00	5.0	1.0	1100	SMA
SZ10B8	180.00	162.00	198.00	5.0	1.0	1200	SMA
SZ10D0	200.00	180.00	220.00	5.0	1.0	1900	SMA

Diode/Rectifier Zener Diode

Part Number	Zener Voltage VZ			Reverse Leakage Current Max (uA)	Power Max (W)	Zener (Ω)	Package
	Nom. V	Min. V	Max. V				
SZ153D	3.30	2.97	3.63	100.0	1.0	10	SMA
SZ153G	3.60	3.24	3.96	100.0	1.0	10	SMA
SZ153J	3.90	3.51	4.29	50.0	1.0	9	SMA
SZ154D	4.30	3.87	4.73	10.0	1.0	9	SMA
SZ154H	4.70	4.23	5.17	10.0	1.0	8	SMA
SZ155B	5.10	4.59	5.61	10.0	1.0	7	SMA
SZ155G	5.60	5.04	6.16	10.0	1.0	5	SMA
SZ156C	6.20	5.58	6.82	10.0	1.0	2	SMA
SZ156I	6.80	6.12	7.48	10.0	1.0	3.5	SMA
SZ157F	7.50	6.75	8.25	10.0	1.0	4	SMA
SZ158C	8.20	7.38	9.02	10.0	1.0	4.5	SMA
SZ159B	9.10	8.19	10.01	10.0	1.0	5	SMA
SZ1510	10.00	9.00	11.00	5.0	1.0	7	SMA
SZ1511	11.00	9.90	12.10	5.0	1.0	8	SMA
SZ1512	12.00	10.80	13.20	5.0	1.0	9	SMA
SZ1513	13.00	11.70	14.30	5.0	1.0	10	SMA
SZ1515	15.00	13.50	16.50	5.0	1.0	14	SMA
SZ1516	16.00	14.40	17.60	5.0	1.0	16	SMA
SZ1518	18.00	16.20	19.80	5.0	1.0	20	SMA
SZ1520	20.00	18.00	22.00	5.0	1.0	22	SMA
SZ1522	22.00	19.80	24.20	5.0	1.0	23	SMA
SZ1524	24.00	21.60	26.40	5.0	1.0	25	SMA
SZ1527	27.00	24.30	29.70	5.0	1.0	35	SMA
SZ1530	30.00	27.00	33.00	5.0	1.0	40	SMA
SZ1533	33.00	29.70	36.30	5.0	1.0	45	SMA
SZ1536	36.00	32.40	39.60	5.0	1.0	50	SMA
SZ1539	39.00	35.10	42.90	5.0	1.0	60	SMA
SZ1543	43.00	38.70	47.30	5.0	1.0	70	SMA
SZ1547	47.00	42.30	51.70	5.0	1.0	80	SMA
SZ1551	51.00	45.90	56.10	5.0	1.0	95	SMA
SZ1556	56.00	50.40	61.60	5.0	1.0	110	SMA
SZ1562	62.00	55.80	68.20	5.0	1.0	125	SMA
SZ1568	68.00	61.20	74.80	5.0	1.0	150	SMA
SZ1575	75.00	67.50	82.50	5.0	1.0	175	SMA
SZ1582	82.00	73.80	90.20	5.0	1.0	200	SMA
SZ1591	91.00	81.90	100.10	5.0	1.0	250	SMA
SZ15B0	100.00	90.00	110.00	5.0	1.0	350	SMA
SZ15B1	110.00	99.00	121.00	5.0	1.0	450	SMA
SZ15B2	120.00	108.00	132.00	5.0	1.0	550	SMA
SZ15B3	130.00	117.00	143.00	5.0	1.0	700	SMA
SZ15B5	150.00	135.00	165.00	5.0	1.0	1000	SMA
SZ15B6	160.00	144.00	176.00	5.0	1.0	1100	SMA
SZ15B8	180.00	162.00	198.00	5.0	1.0	1200	SMA
SZ15D0	200.00	180.00	220.00	5.0	1.0	1900	SMA

Diode/Rectifier Zener Diode

Part Number	Zener Voltage VZ			Reverse Leakage Current Max (uA)	Power Max (W)	Zener (Ω)	Package
	Nom. V	Min. V	Max. V				
SZ303D	3.30	2.97	3.63	100.0	1.5	10	SMA
SZ303G	3.60	3.24	3.96	75.0	1.5	9	SMA
SZ303J	3.90	3.51	4.29	50.0	1.5	7.5	SMA
SZ304D	4.30	3.87	4.73	50.0	1.5	6	SMA
SZ304H	4.70	4.23	5.17	50.0	1.5	5	SMA
SZ305B	5.10	4.59	5.61	50.0	1.5	4	SMA
SZ305G	5.60	5.04	6.16	50.0	1.5	2	SMA
SZ306C	6.20	5.58	6.82	50.0	1.5	2	SMA
SZ306I	6.80	6.12	7.48	50.0	1.5	2.5	SMA
SZ307F	7.50	6.75	8.25	50.0	1.5	3	SMA
SZ308C	8.20	7.38	9.02	50.0	1.5	3.5	SMA
SZ309B	9.10	8.19	10.01	50.0	1.5	4	SMA
SZ3010	10.00	9.00	11.00	50.0	1.5	4.5	SMA
SZ3011	11.00	9.90	12.10	50.0	1.5	5.5	SMA
SZ3012	12.00	10.80	13.20	1.0	1.5	6.5	SMA
SZ3013	13.00	11.70	14.30	1.0	1.5	7	SMA
SZ3015	15.00	13.50	16.50	1.0	1.5	9	SMA
SZ3016	16.00	14.40	17.60	1.0	1.5	10	SMA
SZ3018	18.00	16.20	19.80	1.0	1.5	12	SMA
SZ3020	20.00	18.00	22.00	1.0	1.5	14	SMA
SZ3022	22.00	19.80	24.20	1.0	1.5	17.5	SMA
SZ3024	24.00	21.60	26.40	1.0	1.5	19	SMA
SZ3027	27.00	24.30	29.70	1.0	1.5	23	SMA
SZ3030	30.00	27.00	33.00	1.0	1.5	26	SMA
SZ3033	33.00	29.70	36.30	1.0	1.5	33	SMA
SZ3036	36.00	32.40	39.60	1.0	1.5	38	SMA
SZ3039	39.00	35.10	42.90	1.0	1.5	45	SMA
SZ3043	43.00	38.70	47.30	1.0	1.5	53	SMA
SZ3047	47.00	42.30	51.70	1.0	1.5	67	SMA
SZ3051	51.00	45.90	56.10	1.0	1.5	70	SMA
SZ3056	56.00	50.40	61.60	1.0	1.5	86	SMA
SZ3062	62.00	55.80	68.20	1.0	1.5	100	SMA
SZ3068	68.00	61.20	74.80	1.0	1.5	120	SMA
SZ3075	75.00	67.50	82.50	1.0	1.5	140	SMA
SZ3082	82.00	73.80	90.20	1.0	1.5	160	SMA
SZ3091	91.00	81.90	100.10	1.0	1.5	200	SMA
SZ30B0	100.00	90.00	110.00	1.0	1.5	250	SMA
SZ30B1	110.00	99.00	121.00	1.0	1.5	300	SMA
SZ30B2	120.00	108.00	132.00	1.0	1.5	380	SMA
SZ30B3	130.00	117.00	143.00	1.0	1.5	450	SMA
SZ30B5	150.00	135.00	165.00	1.0	1.5	600	SMA
SZ30B6	160.00	144.00	176.00	1.0	1.5	700	SMA
SZ30B8	180.00	162.00	198.00	1.0	1.5	900	SMA
SZ30D0	200.00	180.00	220.00	1.0	1.5	1200	SMA

Diode/Rectifier Zener Diode

Part Number	Zener Voltage VZ			Reverse Leakage Current Max (uA)	Power Max (W)	Zener (Ω)	Package
	Nom. V	Min. V	Max. V				
1SMB5913A	3.30	2.97	3.63	100	3.0	10	SMB
1SMB5914A	3.60	3.24	3.96	75	3.0	9	SMB
1SMB5915A	3.90	3.51	4.29	25	3.0	7.5	SMB
1SMB5916A	4.30	3.87	4.73	50	3.0	6	SMB
1SMB5917A	4.70	4.23	5.17	50	3.0	5	SMB
1SMB5918A	5.10	4.59	5.61	50	3.0	4	SMB
1SMB5919A	5.60	5.04	6.16	50	3.0	2	SMB
1SMB5920A	6.20	5.58	6.82	50	3.0	2	SMB
1SMB5921A	6.80	6.12	7.48	50	3.0	2.5	SMB
1SMB5922A	7.50	6.75	8.25	50	3.0	3	SMB
1SMB5923A	8.20	7.38	9.02	50	3.0	3.5	SMB
1SMB5924A	9.10	8.19	10.01	50	3.0	4	SMB
1SMB5925A	10.00	9.00	11.00	50	3.0	4.5	SMB
1SMB5926A	11.00	9.90	12.10	1.0	3.0	5.5	SMB
1SMB5927A	12.00	10.80	13.20	1.0	3.0	6.5	SMB
1SMB5928A	13.00	11.70	14.30	1.0	3.0	7	SMB
1SMB5929A	15.00	13.50	16.50	1.0	3.0	9	SMB
1SMB5930A	16.00	14.40	17.60	1.0	3.0	10	SMB
1SMB5931A	18.00	16.20	19.80	1.0	3.0	12	SMB
1SMB5932A	20.00	18.00	22.00	1.0	3.0	14	SMB
1SMB5933A	22.00	19.80	24.20	1.0	3.0	17.5	SMB
1SMB5934A	24.00	21.60	26.40	1.0	3.0	19	SMB
1SMB5935A	27.00	24.30	29.70	1.0	3.0	23	SMB
1SMB5936A	30.00	27.00	33.00	1.0	3.0	26	SMB
1SMB5937A	33.00	29.70	36.30	1.0	3.0	33	SMB
1SMB5938A	36.00	32.40	39.60	1.0	3.0	38	SMB
1SMB5939A	39.00	35.10	42.90	1.0	3.0	45	SMB
1SMB5940A	43.00	38.70	47.30	1.0	3.0	53	SMB
1SMB5941A	47.00	42.30	51.70	1.0	3.0	67	SMB
1SMB5942A	51.00	45.90	56.10	1.0	3.0	70	SMB
1SMB5943A	56.00	50.40	61.60	1.0	3.0	86	SMB
1SMB5944A	62.00	55.80	68.20	1.0	3.0	100	SMB
1SMB5945A	68.00	61.20	74.80	1.0	3.0	120	SMB
1SMB5946A	75.00	67.50	82.50	1.0	3.0	140	SMB
1SMB5947A	82.00	73.80	90.20	1.0	3.0	160	SMB
1SMB5948A	91.00	81.90	100.10	1.0	3.0	200	SMB
1SMB5949A	100.00	90.00	110.00	1.0	3.0	250	SMB
1SMB5950A	110.00	99.00	121.00	1.0	3.0	300	SMB
1SMB5951A	120.00	108.00	132.00	1.0	3.0	380	SMB
1SMB5952A	130.00	117.00	143.00	1.0	3.0	450	SMB
1SMB5953A	150.00	135.00	165.00	1.0	3.0	600	SMB
1SMB5954A	160.00	144.00	176.00	1.0	3.0	700	SMB
1SMB5955A	180.00	162.00	198.00	1.0	3.0	900	SMB
1SMB5956A	200.00	180.00	220.00	1.0	3.0	1200	SMB

Diode/Rectifier Bride Rectifiers

Part Number	IO(rec) Max (A)	VRRM Max (V)	VFM Max (V)	IFSM Max (A)	IR Max (UA)	Package
B1S	0.5	100	1.0	35	0.005	MBS
B2S	0.5	200	1.0	35	0.005	MBS
B4S	0.5	400	1.0	35	0.005	MBS
B6S	0.5	600	1.0	35	0.005	MBS
B8S	0.5	800	1.0	35	0.005	MBS
B10S	0.5	1000	1.0	35	0.005	MBS
MB1S	0.8	100	1.0	35	0.005	MBS
MB2S	0.8	200	1.0	35	0.005	MBS
MB4S	0.8	400	1.0	35	0.005	MBS
MB6S	0.8	600	1.0	35	0.005	MBS
MB8S	0.8	800	1.0	35	0.005	MBS
MB10S	0.8	1000	1.0	35	0.005	MBS
MBL06S	0.8	600	0.9	50	0.005	MBS
MB005	1.0	50	1.1	50	0.01	MBS
MB01	1.0	100	1.1	50	0.01	MBS
MB02	1.0	200	1.1	50	0.01	MBS
MB04	1.0	400	1.1	50	0.01	MBS
MB06	1.0	600	1.1	50	0.01	MBS
MB08	1.0	800	1.1	50	0.01	MBS
MB010	1.0	1000	1.1	50	0.01	MBS
MB12S	1.0	20	0.5	30	0.03	MBS
MB14S	1.0	40	0.5	30	0.03	MBS
MB16S	1.0	60	0.7	30	0.03	MBS
MB18S	1.0	80	0.9	30	0.03	MBS
MB110S	1.0	100	0.9	30	0.03	MBS
MB120S	1.0	200	0.9	30	0.05	MBS
MDB1100	1.0	100	0.8	50	0.01	MBS
MTB1100	1.0	100	0.8	50	0.01	TBF
ABS102	1.0	200	1.1	30	0.005	ABS
ABS104	1.0	400	1.1	30	0.005	ABS
ABS106	1.0	600	1.1	30	0.005	ABS
ABS108	1.0	800	1.1	30	0.005	ABS
ABS110	1.0	1000	1.1	30	0.005	ABS
DF005S	1.0	50	1.1	50	0.001	DFS
DF01S	1.0	100	1.1	50	0.001	DFS
DF02S	1.0	200	1.1	50	0.001	DFS
DF04S	1.0	400	1.1	50	0.001	DFS
DF06S	1.0	600	1.1	50	0.001	DFS
DF08S	1.0	800	1.1	50	0.001	DFS
DF10S	1.0	1000	1.1	50	0.001	DFS
DF15005S	1.5	50	1.1	50	0.005	DFS
DF1501S	1.5	100	1.1	50	0.005	DFS
DF1502S	1.5	200	1.1	50	0.005	DFS
DF1504S	1.5	400	1.1	50	0.005	DFS
DF1506S	1.5	600	1.1	50	0.005	DFS

Diode/Rectifier Bride Rectifiers

Part Number	IO(rec) Max (A)	VRRM Max (V)	VFM Max (V)	IFSM Max (A)	IR Max (UA)	Package
DF1508S	1.5	800	1.1	50	0.005	DFS
DF1510S	1.5	1000	1.1	50	0.005	DFS
DB151S	1.5	50	1.1	50	0.01	DBS
DB152S	1.5	100	1.1	50	0.01	DBS
DB153S	1.5	200	1.1	50	0.01	DBS
DB154S	1.5	400	1.1	50	0.01	DBS
DB155S	1.5	600	1.1	50	0.01	DBS
DB156S	1.5	800	1.1	50	0.01	DBS
DB157S	1.5	1000	1.1	50	0.01	DBS
S2A	2.0	50	2.0	50	0.005	SMB
S2B	2.0	100	2.0	50	0.005	SMB
S2D	2.0	200	2.0	50	0.005	SMB
S2G	2.0	400	2.0	50	0.005	SMB
S2J	2.0	600	2.0	50	0.005	SMB
S2K	2.0	800	2.0	50	0.005	SMB
S2M	2.0	1000	2.0	50	0.005	SMB
MB22S	2.0	20	0.5	30	0.05	MBS
MB24S	2.0	40	0.5	30	0.05	MBS
MB26S	2.0	60	0.7	30	0.05	MBS
MB28S	2.0	80	0.9	30	0.05	MBS
MB210S	2.0	100	0.9	30	0.05	MBS
MDB26	2.0	60	0.6	60	0.2	MBS
MTB26	2.0	60	0.6	60	0.2	TBF
KBP200	2.0	50	1.0	60	0.01	KBP
KBP201	2.0	100	1.0	60	0.01	KBP
KBP202	2.0	200	1.0	60	0.01	KBP
KBP204	2.0	400	1.0	60	0.01	KBP
KBP206	2.0	600	1.0	60	0.01	KBP
KBP208	2.0	800	1.0	60	0.01	KBP
KBP210	2.0	1000	1.0	60	0.01	KBP
ABS202	2.0	200	1.1	60	0.005	ABS
ABS204	2.0	400	1.1	60	0.005	ABS
ABS206	2.0	600	1.1	60	0.005	ABS
ABS208	2.0	800	1.1	60	0.005	ABS
ABS210	2.0	1000	1.1	60	0.005	ABS
1.5W005	2.0	50	1.1	50	0.01	WOB
1.5W01	2.0	100	1.1	60	0.01	WOB
1.5W02	2.0	200	1.1	60	0.01	WOB
1.5W04	2.0	400	1.1	60	0.01	WOB
1.5W06	2.0	600	1.1	60	0.01	WOB
1.5W08	2.0	800	1.1	60	0.01	WOB
1.5W10	2.0	1000	1.1	60	0.01	WOB
2W005	2.0	50	1.1	60	0.01	WOB
2W01	2.0	100	1.1	60	0.01	WOB
2W02	2.0	200	1.1	60	0.01	WOB

Diode/Rectifier Bride Rectifiers

Part Number	IO(rec) Max (A)	VRRM Max (V)	VFM Max (V)	IFSM Max (A)	IR Max (UA)	Package
2W04	2.0	400	1.1	60	0.01	WOB
2W06	2.0	600	1.1	60	0.01	WOB
2W08	2.0	800	1.1	60	0.01	WOB
2W10	2.0	1000	1.1	60	0.01	WOB
2W005M	2.0	50	1.1	60	0.01	WOBM
2W01M	2.0	100	1.1	60	0.01	WOBM
2W02M	2.0	200	1.1	60	0.01	WOBM
2W04M	2.0	400	1.1	60	0.01	WOBM
2W06M	2.0	600	1.1	60	0.01	WOBM
2W08M	2.0	800	1.1	60	0.01	WOBM
2W10M	2.0	1000	1.1	60	0.01	WOBM
KBP300	3.0	50	1.1	80	0.01	KBP
KBP301	3.0	100	1.1	80	0.01	KBP
KBP302	3.0	200	1.1	80	0.01	KBP
KBP304	3.0	400	1.1	80	0.01	KBP
KBP306	3.0	600	1.1	80	0.01	KBP
KBP308	3.0	800	1.1	80	0.01	KBP
KBP310	3.0	1000	1.1	80	0.01	KBP
BR3005	3.0	50	1.1	40	0.01	BR3
BR301	3.0	100	1.1	40	0.01	BR3
BR302	3.0	200	1.1	40	0.01	BR3
BR304	3.0	400	1.1	40	0.01	BR3
BR306	3.0	600	1.1	40	0.01	BR3
BR308	3.0	800	1.1	40	0.01	BR3
BR310	3.0	1000	1.1	40	0.01	BR3
KBL400	4.0	50	1.1	200	0.01	KBP
KBL401	4.0	100	1.1	200	0.01	KBP
KBL402	4.0	200	1.1	200	0.01	KBP
KBL404	4.0	400	1.1	200	0.01	KBP
KBL406	4.0	600	1.1	200	0.01	KBP
KBL408	4.0	800	1.1	200	0.01	KBP
KBL410	4.0	1000	1.1	200	0.01	KBP
GBU4A	4.0	50	1.0	150	0.005	GBU
GBU4B	4.0	100	1.0	150	0.005	GBU
GBU4D	4.0	200	1.0	150	0.005	GBU
GBU4G	4.0	400	1.0	150	0.005	GBU
GBU4J	4.0	600	1.0	150	0.005	GBU
GBU4K	4.0	800	1.0	150	0.005	GBU
GBU4M	4.0	1000	1.0	150	0.005	GBU
GBU4AL	4.0	50	0.9	150	0.005	GBU
GBU4BL	4.0	100	0.9	150	0.005	GBU
GBU4DL	4.0	200	0.9	150	0.005	GBU
GBU4GL	4.0	400	0.9	150	0.005	GBU
GBU4JL	4.0	600	0.9	150	0.005	GBU
GBU4KL	4.0	800	0.9	150	0.005	GBU

Diode/Rectifier Bride Rectifiers

Part Number	IO(rec) Max (A)	VRRM Max (V)	VFM Max (V)	IFSM Max (A)	IR Max (UA)	Package
GBU4ML	4.0	1000	0.9	150	0.005	GBU
4GBJ4005	4.0	50	1.1	135	0.01	4GBJ
4GBJ401	4.0	100	1.1	135	0.01	4GBJ
4GBJ402	4.0	200	1.1	135	0.01	4GBJ
4GBJ404	4.0	400	1.1	135	0.01	4GBJ
4GBJ406	4.0	600	1.1	135	0.01	4GBJ
4GBJ408	4.0	800	1.1	135	0.01	4GBJ
4GBJ410	4.0	1000	1.1	135	0.01	4GBJ
MAB46	4.0	60	0.7	60	0.2	ABS
BR6005	6.0	50	1.0	175	0.01	BR6
BR601	6.0	100	1.0	175	0.01	BR6
BR602	6.0	200	1.0	175	0.01	BR6
BR604	6.0	400	1.0	175	0.01	BR6
BR606	6.0	600	1.0	175	0.01	BR6
BR608	6.0	800	1.0	175	0.01	BR6
BR610	6.0	1000	1.0	175	0.01	BR6
GBU6005	6.0	50	1.0	175	0.01	GBU
GBU601	6.0	100	1.0	175	0.01	GBU
GBU602	6.0	200	1.0	175	0.01	GBU
GBU604	6.0	400	1.0	175	0.01	GBU
GBU606	6.0	600	1.0	175	0.01	GBU
GBU608	6.0	800	1.0	175	0.01	GBU
GBU610	6.0	1000	1.0	175	0.01	GBU
KBU6005	6.0	50	1.0	175	0.01	KBU
KBU601	6.0	100	1.0	175	0.01	KBU
KBU602	6.0	200	1.0	175	0.01	KBU
KBU604	6.0	400	1.0	175	0.01	KBU
KBU606	6.0	600	1.0	175	0.01	KBU
KBU608	6.0	800	1.0	175	0.01	KBU
KBU610	6.0	1000	1.0	175	0.01	KBU
KBU8005	8.0	50	1.0	200	0.01	KBU
KBU801	8.0	100	1.0	200	0.01	KBU
KBU802	8.0	200	1.0	200	0.01	KBU
KBU804	8.0	400	1.0	200	0.01	KBU
KBU806	8.0	600	1.0	200	0.01	KBU
KBU808	8.0	800	1.0	200	0.01	KBU
KBU810	8.0	1000	1.0	200	0.01	KBU
GBU8A	8.0	50	1.0	200	0.005	GBU
GBU8B	8.0	100	1.0	200	0.005	GBU
GBU8D	8.0	200	1.0	200	0.005	GBU
GBU8G	8.0	400	1.0	200	0.005	GBU
GBU8J	8.0	600	1.0	200	0.005	GBU
GBU8K	8.0	800	1.0	200	0.005	GBU
GBU8M	8.0	1000	1.0	200	0.005	GBU

Diode/Rectifier Bride Rectifiers

Part Number	IO(rec) Max (A)	VRRM Max (V)	VFM Max (V)	IFSM Max (A)	IR Max (UA)	Package
KBU10005	10.0	50	1.0	240	0.01	KBU
KBU1001	10.0	100	1.0	240	0.01	KBU
KBU1002	10.0	200	1.0	240	0.01	KBU
KBU1004	10.0	400	1.0	240	0.01	KBU
KBU1006	10.0	600	1.0	240	0.01	KBU
KBU1008	10.0	800	1.0	240	0.01	KBU
KBU1010	10.0	1000	1.0	240	0.01	KBU
BR10005S	10.0	50	1.0	240	0.01	BR8
BR1001S	10.0	100	1.0	240	0.01	BR8
BR1002S	10.0	200	1.0	240	0.01	BR8
BR1004S	10.0	400	1.0	240	0.01	BR8
BR1006S	10.0	600	1.0	240	0.01	BR8
BR1008S	10.0	800	1.0	240	0.01	BR8
BR1010S	10.0	1000	1.0	240	0.01	BR8
GBU10005	10.0	50	1.0	220	0.01	GBU
GBU1001	10.0	100	1.0	220	0.01	GBU
GBU1002	10.0	200	1.0	220	0.01	GBU
GBU1004	10.0	400	1.0	220	0.01	GBU
GBU1006	10.0	600	1.0	220	0.01	GBU
GBU1008	10.0	800	1.0	220	0.01	GBU
GBU1010	10.0	1000	1.0	220	0.01	GBU
GBU15005	15.0	50	1.0	240	0.01	GBU
GBU1501	15.0	100	1.0	240	0.01	GBU
GBU1502	15.0	200	1.0	240	0.01	GBU
GBU1504	15.0	400	1.0	240	0.01	GBU
GBU1506	15.0	600	1.0	240	0.01	GBU
GBU1508	15.0	800	1.0	240	0.01	GBU
GBU1510	15.0	1000	1.0	240	0.01	GBU
GBPC15005W	15.0	50	1.1	300	0.01	GBPCW
GBPC1501W	15.0	100	1.1	300	0.01	GBPCW
GBPC1502W	15.0	200	1.1	300	0.01	GBPCW
GBPC1504W	15.0	400	1.1	300	0.01	GBPCW
GBPC1506W	15.0	600	1.1	300	0.01	GBPCW
GBPC1508W	15.0	800	1.1	300	0.01	GBPCW
GBPC1510W	15.0	1000	1.1	300	0.01	GBPCW
GBPC15005	15.0	50	1.1	300	0.01	GBPC
GBPC1501	15.0	100	1.1	300	0.01	GBPC
GBPC1502	15.0	200	1.1	300	0.01	GBPC
GBPC1504	15.0	400	1.1	300	0.01	GBPC
GBPC1506	15.0	600	1.1	300	0.01	GBPC
GBPC1508	15.0	800	1.1	300	0.01	GBPC
GBPC1510	15.0	1000	1.1	300	0.01	GBPC
GBPC25005	25.0	50	1.1	350	0.01	GBPC
GBPC2501	25.0	100	1.1	350	0.01	GBPC
GBPC2502	25.0	200	1.1	350	0.01	GBPC

Diode/Rectifier Bride Rectifiers

Part Number	IO(rec) Max (A)	VRRM Max (V)	VFM Max (V)	IFSM Max (A)	IR Max (UA)	Package
GBPC2504	25.0	400	1.1	350	0.01	GBPC
GBPC2506	25.0	600	1.1	350	0.01	GBPC
GBPC2508	25.0	800	1.1	350	0.01	GBPC
GBPC2510	25.0	1000	1.1	350	0.01	GBPC
GBPC25005W	25.0	50	1.1	350	0.01	GBPCW
GBPC2501W	25.0	100	1.1	350	0.01	GBPCW
GBPC2502W	25.0	200	1.1	350	0.01	GBPCW
GBPC2504W	25.0	400	1.1	350	0.01	GBPCW
GBPC2506W	25.0	600	1.1	350	0.01	GBPCW
GBPC2508W	25.0	800	1.1	350	0.01	GBPCW
GBPC2510W	25.0	1000	1.1	350	0.01	GBPCW
GBPC35005W	35.0	50	1.1	400	0.01	GBPCW
GBPC3501W	35.0	100	1.1	400	0.01	GBPCW
GBPC3502W	35.0	200	1.1	400	0.01	GBPCW
GBPC3504W	35.0	400	1.1	400	0.01	GBPCW
GBPC3506W	35.0	600	1.1	400	0.01	GBPCW
GBPC3508W	35.0	800	1.1	400	0.01	GBPCW
GBPC3510W	35.0	1000	1.1	400	0.01	GBPCW
GBPC35005	35.0	50	1.1	400	0.01	GBPC
GBPC3501	35.0	100	1.1	400	0.01	GBPC
GBPC3502	35.0	200	1.1	400	0.01	GBPC
GBPC3504	35.0	400	1.1	400	0.01	GBPC
GBPC3506	35.0	600	1.1	400	0.01	GBPC
GBPC3508	35.0	800	1.1	400	0.01	GBPC
GBPC3510	35.0	1000	1.1	400	0.01	GBPC
GBPC50005	50.0	50	1.1	450	0.01	GBPC
GBPC5001	50.0	100	1.1	450	0.01	GBPC
GBPC5002	50.0	200	1.1	450	0.01	GBPC
GBPC5004	50.0	400	1.1	450	0.01	GBPC
GBPC5006	50.0	600	1.1	450	0.01	GBPC
GBPC5008	50.0	800	1.1	450	0.01	GBPC
GBPC5010	50.0	1000	1.1	450	0.01	GBPC
GBPC50005W	50.0	50	1.1	450	0.01	GBPCW
GBPC5001W	50.0	100	1.1	450	0.01	GBPCW
GBPC5002W	50.0	200	1.1	450	0.01	GBPCW
GBPC5004W	50.0	400	1.1	450	0.01	GBPCW
GBPC5006W	50.0	600	1.1	450	0.01	GBPCW
GBPC5008W	50.0	800	1.1	450	0.01	GBPCW
GBPC5010W	50.0	1000	1.1	450	0.01	GBPCW

TVS/ESD/EMI Transient Voltage Supprssor

Part Number		Breakdown Voltage			Working Peak Reverse Voltage VRWM(V)	Maximin Reverse Leakage IR@VRWM (uA)	Maximum Reverse Surge Current Ipp (A)	Maximum Clamping Voltage Vc @Ipp (V)	Package
		V(BR) @IT							
Uni	Bi	Min(V)	Max(V)	IT(mA)					
200W FOR SURFACE MOUNT									
SMF5.0A	SMF5.0CA	6.4	7	10	5	400	21.74	9.2	SOD-123
SMF6.0A	SMF6.0CA	6.67	7.37	10	6	400	19.42	10.3	SOD-123
SMF6.5A	SMF6.5CA	7.22	7.98	10	6.5	250	17.86	11.2	SOD-123
SMF7.0A	SMF7.0CA	7.78	8.6	10	7	100	16.67	12	SOD-123
SMF7.5A	SMF7.5CA	8.33	9.21	1	7.5	50	15.5	12.9	SOD-123
SMF8.0A	SMF8.0CA	8.89	9.83	1	8	25	14.71	13.6	SOD-123
SMF8.5A	SMF8.5CA	9.44	10.4	1	8.5	10	13.89	14.4	SOD-123
SMF9.0A	SMF9.0CA	10	11.1	1	9	5	12.99	15.4	SOD-123
SMF10A	SMF10CA	11.1	12.3	1	10	2.5	11.76	17	SOD-123
SMF11A	SMF11CA	12.2	13.5	1	11	2.5	10.99	18.2	SOD-123
SMF12A	SMF12CA	13.3	14.7	1	12	2.5	10.05P	19.9	SOD-123
SMF13A	SMF13CA	14.4	15.9	1	13	1	9.3	21.5	SOD-123
SMF14A	SMF14CA	15.6	17.2	1	14	1	8.62	23.2	SOD-123
SMF15A	SMF15CA	16.7	18.5	1	15	1	8.2	24.4	SOD-123
SMF16A	SMF16CA	17.8	19.7	1	16	1	7.69	26	SOD-123
SMF17A	SMF17CA	18.9	20.9	1	17	1	7.25	27.6	SOD-123
SMF18A	SMF18CA	20	22.1	1	18	1	6.85	29.2	SOD-123
SMF19A	SMF19CA	21.1	23.3	1	19	1	6.54	30.6	SOD-123
SMF20A	SMF20CA	22.2	24.5	1	20	1	6.17	32.4	SOD-123
SMF22A	SMF22CA	24.4	26.9	1	22	1	5.63	35.5	SOD-123
SMF24A	SMF24CA	26.7	29.5	1	24	1	5.14	38.9	SOD-123
SMF26A	SMF26CA	28.9	31.9	1	26	1	4.75	42.1	SOD-123
SMF28A	SMF28CA	31.1	34.4	1	28	1	4.41	45.4	SOD-123
SMF30A	SMF30CA	33.3	36.8	1	30	1	4.13	48.4	SOD-123
SMF33A	SMF33CA	36.7	40.6	1	33	1	3.75	53.3	SOD-123
SMF36A	SMF36CA	40	44.2	1	36	1	3.44	58.4	SOD-123
SMF40A	SMF40CA	44.4	49.1	1	40	1	3.1	64.5	SOD-123
SMF43A	SMF43CA	47.8	52.8	1	43	1	2.88	69.4	SOD-123
SMF45A	SMF45CA	50	55.3	1	45	1	2.75	72.7	SOD-123
SMF48A	SMF48CA	53.3	58.9	1	48	1	2.58	77.4	SOD-123
SMF51A	SMF51CA	56.7	62.7	1	51	1	2.43	82.4	SOD-123
SMF54A	SMF54CA	60	66.3	1	54	1	2.3	87.1	SOD-123
SMF58A	SMF58CA	64.4	71.2	1	58	1	2.14	93.6	SOD-123
SMF60A	SMF60CA	66.7	73.7	1	60	1	2.07	96.8	SOD-123
SMF64A	SMF64CA	71.1	78.6	1	64	1	1.94	103	SOD-123
SMF70A	SMF70CA	77.8	86	1	70	1	1.77	113	SOD-123
SMF75A	SMF75CA	83.3	92.1	1	75	1	1.65	121	SOD-123
SMF78A	SMF78CA	86.7	95.8	1	78	1	1.59	126	SOD-123
SMF80A	SMF80CA	88.8	97.6	1	80	1	1.55	129	SOD-123
SMF85A	SMF85CA	94.4	104	1	85	1	1.46	137	SOD-123
SMF90A	SMF90CA	100	111	1	90	1	1.37	146	SOD-123
SMF100A	SMF100CA	111	123	1	100	1	1.23	162	SOD-123

TVS/ESD/EMI Transient Voltage Supprssor

Part Number		Breakdown Voltage			Working Peak Reverse Voltage VRWM(V)	Maximin Reverse Leakage IR@VRWM (uA)	Maximum Reverse Surge Current Ipp (A)	Maximum Clamping Voltage Vc @Ipp (V)	Package
		V(BR) @IT							
Uni	Bi	Min(V)	Max(V)	IT(mA)					
200W FOR SURFACE MOUNT									
SMF110A	SMF110CA	122	135	1	110	1	1.13	177	SOD-123
SMF120A	SMF120CA	133	147	1	120	1	1.04	193	SOD-123
SMF130A	SMF130CA	144	159	1	130	1	0.96	209	SOD-123
SMF140A	SMF140CA	155	171	1	140	1	0.89	224	SOD-123
SMF150A	SMF150CA	167	185	1	150	1	0.82	243	SOD-123
SMF160A	SMF160CA	178	197	1	160	1	0.77	259	SOD-123
SMF170A	SMF170CA	189	209	1	170	1	0.73	275	SOD-123
SMF180A	SMF180A	200	220	1	180	1	0.68	292	SOD-123
SMF190A	SMF190A	211	232	1	190	1	0.65	308	SOD-123

TVS/ESD/EMI Transient Voltage Supprssor

Part Number		Breakdown Voltage			Working Peak Reverse Voltage VRWM(V)	Maximin Reverse Leakage IR@VRWM (uA)	Maximum Reverse Surge Current Ipp (A)	Maximum Clamping Voltage Vc @Ipp (V)	Package
		V(BR) @IT							
Uni	Bi	Min(V)	Max(V)	IT(mA)					
400W FOR AXIAL LEAD									
P4KE6.8	P4KE6.8C	6.12	7.48	10	5.5	1000	38	10.8	DO-41
P4KE6.8A	P4KE6.8CA	6.45	7.14	10	5.8	1000	40	10.5	DO-41
P4KE7.5	P4KE7.5C	6.75	8.25	10	6.05	500	36	11.7	DO-41
P4KE7.5A	P4KE7.5CA	7.13	7.88	10	6.4	500	37	11.3	DO-41
P4KE8.2	P4KE8.2C	7.38	9.02	10	6.63	200	33	12.5	DO-41
P4KE8.2A	P4KE8.2CA	7.79	8.61	10	7.02	200	35	12.1	DO-41
P4KE9.1	P4KE9.1C	8.19	10	1	7.37	50	30	13.8	DO-41
P4KE9.1A	P4KE9.1CA	8.65	9.55	1	7.78	50	31	13.4	DO-41
P4KE10	P4KE10C	9	11	1	8.1	10	28	15	DO-41
P4KE10A	P4KE10CA	9.5	10.5	1	8.55	10	29	14.5	DO-41
P4KE11	P4KE11C	9.9	12.1	1	8.92	5	26	16.2	DO-41
P4KE11A	P4KE11CA	10.5	11.6	1	9.4	5	27	15.6	DO-41
P4KE12	P4KE12C	10.8	13.2	1	9.72	5	24	17.3	DO-41
P4KE12A	P4KE12CA	11.4	12.6	1	10.2	5	25	16.7	DO-41
P4KE13	P4KE13C	11.7	14.3	1	10.5	5	22	19	DO-41
P4KE13A	P4KE13CA	12.4	13.7	1	11.1	5	23	18.2	DO-41
P4KE15	P4KE15C	13.5	16.5	1	12.1	5	19	22	DO-41
P4KE15A	P4KE15CA	14.3	15.8	1	12.8	5	20	21.2	DO-41
P4KE16	P4KE16C	14.4	17.6	1	12.9	5	18	23.5	DO-41
P4KE16A	P4KE16CA	15.2	16.8	1	13.6	5	19	22.5	DO-41
P4KE17	P4KE17C	15.3	18.7	1	13.7	5	17	25	DO-41
P4KE17A	P4KE17CA	16.2	17.9	1	14.5	5	18	24	DO-41
P4KE18	P4KE18C	16.2	19.8	1	14.5	5	16	26.5	DO-41
P4KE18A	P4KE18CA	17.1	18.9	1	15.3	5	17	25.5	DO-41
P4KE20	P4KE20C	18	22	1	16.2	5	14	29.1	DO-41
P4KE20A	P4KE20CA	19	21	1	17.1	5	15	27.7	DO-41
P4KE22	P4KE22C	19.8	24.2	1	17.8	5	13	31.9	DO-41
P4KE22A	P4KE22CA	20.9	23.1	1	18.8	5	14	30.6	DO-41
P4KE24	P4KE24C	21.6	26.4	1	19.4	5	12	34.7	DO-41
P4KE24A	P4KE24CA	22.8	25.2	1	20.5	5	13	33.2	DO-41
P4KE27	P4KE27C	24.3	29.7	1	21.8	5	11	39.1	DO-41
P4KE27A	P4KE27CA	25.7	28.4	1	23.1	5	11.2	37.5	DO-41
P4KE30	P4KE30C	27	33	1	24.3	5	10	43.5	DO-41
P4KE30A	P4KE30CA	28.5	31.5	1	25.6	5	10	41.4	DO-41
P4KE33	P4KE33C	29.7	36.6	1	26.8	5	9	47.7	DO-41
P4KE33A	P4KE33CA	31.4	34.7	1	28.2	5	9	45.7	DO-41
P4KE36	P4KE36C	32.4	39.6	1	29.1	5	8	52	DO-41
P4KE36A	P4KE36CA	34.2	37.8	1	30.8	5	8.4	49.9	DO-41
P4KE39	P4KE39C	35.1	42.9	1	31.6	5	7.4	56.4	DO-41
P4KE39A	P4KE39CA	37.1	41	1	33.3	5	7.8	53.9	DO-41
P4KE43	P4KE43C	38.7	47.3	1	34.8	5	6.8	61.9	DO-41
P4KE43A	P4KE43CA	40.9	45.2	1	36.8	5	7.1	59.3	DO-41

TVS/ESD/EMI Transient Voltage Supprssor

Part Number		Breakdown Voltage			Working Peak Reverse Voltage VRWM(V)	Maximin Reverse Leakage IR@VRWM (uA)	Maximum Reverse Surge Current Ipp (A)	Maximum Clamping Voltage Vc @Ipp (V)	Package
		V(BR) @IT							
Uni	Bi	Min(V)	Max(V)	IT(mA)					
400W FOR AXIAL LEAD									
P4KE47	P4KE47C	42.3	51.7	1	38.1	5	6.2	67.8	DO-41
P4KE47A	P4KE47CA	44.7	49.4	1	40.2	5	6.5	64.8	DO-41
P4KE51	P4KE51C	45.9	56.1	1	41.3	5	5.7	73.5	DO-41
P4KE51A	P4KE51CA	48.5	53.6	1	43.6	5	6	70.1	DO-41
P4KE56	P4KE56C	50.4	61.6	1	45.4	5	5.2	80.5	DO-41
P4KE56A	P4KE56CA	53.2	58.8	1	47.8	5	5.5	77	DO-41
P4KE62	P4KE62C	55.8	68.2	1	50.2	5	4.7	89	DO-41
P4KE62A	P4KE62CA	58.9	65.1	1	53	5	5	85	DO-41
P4KE68	P4KE68C	61.2	74.8	1	55.1	5	4.3	98	DO-41
P4KE68A	P4KE68CA	64.6	71.4	1	58.1	5	4.6	92	DO-41
P4KE75	P4KE75C	67.5	82.5	1	60.7	5	3.9	108	DO-41
P4KE75A	P4KE75CA	71.3	78.8	1	64.1	5	4.1	103	DO-41
P4KE82	P4KE82C	73.8	90.2	1	66.4	5	3.6	118	DO-41
P4KE82A	P4KE82CA	77.9	86.1	1	70.1	5	3.7	113	DO-41
P4KE91	P4KE91C	81.9	100	1	73.7	5	3.2	131	DO-41
P4KE91A	P4KE91CA	86.5	95.5	1	77.8	5	3.4	125	DO-41
P4KE100	P4KE100C	90	110	1	81	5	2.9	144	DO-41
P4KE100A	P4KE100CA	95	105	1	85.5	5	3.1	137	DO-41
P4KE47	P4KE47C	42.3	51.7	1	38.1	5	6.2	67.8	DO-41
P4KE47A	P4KE47CA	44.7	49.4	1	40.2	5	6.5	64.8	DO-41
P4KE51	P4KE51C	45.9	56.1	1	41.3	5	5.7	73.5	DO-41
P4KE51A	P4KE51CA	48.5	53.6	1	43.6	5	6	70.1	DO-41
P4KE56	P4KE56C	50.4	61.6	1	45.4	5	5.2	80.5	DO-41
P4KE56A	P4KE56CA	53.2	58.8	1	47.8	5	5.5	77	DO-41
P4KE62	P4KE62C	55.8	68.2	1	50.2	5	4.7	89	DO-41
P4KE62A	P4KE62CA	58.9	65.1	1	53	5	5	85	DO-41
P4KE68	P4KE68C	61.2	74.8	1	55.1	5	4.3	98	DO-41
P4KE68A	P4KE68CA	64.6	71.4	1	58.1	5	4.6	92	DO-41
P4KE75	P4KE75C	67.5	82.5	1	60.7	5	3.9	108	DO-41
P4KE75A	P4KE75CA	71.3	78.8	1	64.1	5	4.1	103	DO-41
P4KE82	P4KE82C	73.8	90.2	1	66.4	5	3.6	118	DO-41
P4KE82A	P4KE82CA	77.9	86.1	1	70.1	5	3.7	113	DO-41
P4KE91	P4KE91C	81.9	100	1	73.7	5	3.2	131	DO-41
P4KE91A	P4KE91CA	86.5	95.5	1	77.8	5	3.4	125	DO-41
P4KE100	P4KE100C	90	110	1	81	5	2.9	144	DO-41
P4KE100A	P4KE100CA	95	105	1	85.5	5	3.1	137	DO-41
P4KE47	P4KE47C	42.3	51.7	1	38.1	5	6.2	67.8	DO-41
P4KE47A	P4KE47CA	44.7	49.4	1	40.2	5	6.5	64.8	DO-41
P4KE51	P4KE51C	45.9	56.1	1	41.3	5	5.7	73.5	DO-41
P4KE51A	P4KE51CA	48.5	53.6	1	43.6	5	6	70.1	DO-41
P4KE56	P4KE56C	50.4	61.6	1	45.4	5	5.2	80.5	DO-41
P4KE56A	P4KE56CA	53.2	58.8	1	47.8	5	5.5	77	DO-41

TVS/ESD/EMI Transient Voltage Supprssor

Part Number		Breakdown Voltage			Working Peak Reverse Voltage VRWM(V)	Maximin Reverse Leakage IR@VRWM (uA)	Maximum Reverse Surge Current Ipp (A)	Maximum Clamping Voltage Vc @Ipp (V)	Package
		V(BR) @IT							
Uni	Bi	Min(V)	Max(V)	IT(mA)					
400W FOR AXIAL LEAD									
P4KE62	P4KE62C	55.8	68.2	1	50.2	5	4.7	89	DO-41
P4KE62A	P4KE62CA	58.9	65.1	1	53	5	5	85	DO-41
P4KE68	P4KE68C	61.2	74.8	1	55.1	5	4.3	98	DO-41
P4KE68A	P4KE68CA	64.6	71.4	1	58.1	5	4.6	92	DO-41
P4KE75	P4KE75C	67.5	82.5	1	60.7	5	3.9	108	DO-41
P4KE75A	P4KE75CA	71.3	78.8	1	64.1	5	4.1	103	DO-41
P4KE82	P4KE82C	73.8	90.2	1	66.4	5	3.6	118	DO-41
P4KE82A	P4KE82CA	77.9	86.1	1	70.1	5	3.7	113	DO-41
P4KE91	P4KE91C	81.9	100	1	73.7	5	3.2	131	DO-41
P4KE91A	P4KE91CA	86.5	95.5	1	77.8	5	3.4	125	DO-41
P4KE100	P4KE100C	90	110	1	81	5	2.9	144	DO-41
P4KE100A	P4KE100CA	95	105	1	85.5	5	3.1	137	DO-41
P4KE110	P4KE110C	99	121	1	89.2	5	2.7	158	DO-41
P4KE110A	P4KE110CA	105	116	1	91	5	2.8	152	DO-41
P4KE120	P4KE120C	108	132	1	97.2	5	2.4	173	DO-41
P4KE120A	P4KE120CA	114	126	1	102	5	2.5	165	DO-41
P4KE130	P4KE130C	117	143	1	105	5	2.2	187	DO-41
P4KE130A	P4KE130CA	124	137	1	111	5	2.3	179	DO-41
P4KE150	P4KE150C	135	165	1	121	5	2	215	DO-41
P4KE150A	P4KE150CA	143	158	1	128	5	2	207	DO-41
P4KE62	P4KE62C	55.8	68.2	1	50.2	5	4.7	89	DO-41
P4KE62A	P4KE62CA	58.9	65.1	1	53	5	5	85	DO-41
P4KE68	P4KE68C	61.2	74.8	1	55.1	5	4.3	98	DO-41
P4KE68A	P4KE68CA	64.6	71.4	1	58.1	5	4.6	92	DO-41
P4KE75	P4KE75C	67.5	82.5	1	60.7	5	3.9	108	DO-41
P4KE75A	P4KE75CA	71.3	78.8	1	64.1	5	4.1	103	DO-41
P4KE82	P4KE82C	73.8	90.2	1	66.4	5	3.6	118	DO-41
P4KE82A	P4KE82CA	77.9	86.1	1	70.1	5	3.7	113	DO-41
P4KE91	P4KE91C	81.9	100	1	73.7	5	3.2	131	DO-41
P4KE91A	P4KE91CA	86.5	95.5	1	77.8	5	3.4	125	DO-41
P4KE100	P4KE100C	90	110	1	81	5	2.9	144	DO-41
P4KE100A	P4KE100CA	95	105	1	85.5	5	3.1	137	DO-41
P4KE110	P4KE110C	99	121	1	89.2	5	2.7	158	DO-41
P4KE110A	P4KE110CA	105	116	1	91	5	2.8	152	DO-41
P4KE120	P4KE120C	108	132	1	97.2	5	2.4	173	DO-41
P4KE120A	P4KE120CA	114	126	1	102	5	2.5	165	DO-41
P4KE130	P4KE130C	117	143	1	105	5	2.2	187	DO-41
P4KE130A	P4KE130CA	124	137	1	111	5	2.3	179	DO-41
P4KE150	P4KE150C	135	165	1	121	5	2	215	DO-41
P4KE150A	P4KE150CA	143	158	1	128	5	2	207	DO-41
P4KE160	P4KE160C	144	176	1	130	5	1.8	230	DO-41
P4KE160A	P4KE160CA	152	168	1	136	5	1.9	219	DO-41

TVS/ESD/EMI Transient Voltage Supprssor

Part Number		Breakdown Voltage			Working Peak Reverse Voltage VRWM(V)	Maximin Reverse Leakage IR@VRWM (uA)	Maximum Reverse Surge Current Ipp (A)	Maximum Clamping Voltage Vc @Ipp (V)	Package
		V(BR) @IT							
Uni	Bi	Min(V)	Max(V)	IT(mA)					
400W FOR AXIAL LEAD									
P4KE170	P4KE170C	153	187	1	138	5	1.7	244	DO-41
P4KE170A	P4KE170CA	162	179	1	145	5	1.8	234	DO-41
P4KE180	P4KE180C	162	198	1	146	5	1.6	258	DO-41
P4KE180A	P4KE180CA	171	189	1	154	5	1.7	246	DO-41
P4KE200	P4KE200C	180	220	1	162	5	1.5	287	DO-41
P4KE200A	P4KE200CA	190	210	1	171	5	1.53	274	DO-41
P4KE220	P4KE220C	198	242	1	175	5	1.16	344	DO-41
P4KE220A	P4KE220CA	209	231	1	185	5	1.22	328	DO-41
P4KE250	P4KE250C	225	275	1	202	5	1.11	360	DO-41
P4KE250A	P4KE250CA	237	263	1	214	5	1.16	344	DO-41
P4KE300	P4KE300C	270	330	1	243	5	0.93	430	DO-41
P4KE300A	P4KE300CA	285	315	1	256	5	0.97	414	DO-41
P4KE350	P4KE350C	315	385	1	284	5	0.79	504	DO-41
P4KE350A	P4KE350CA	332	368	1	300	5	0.83	482	DO-41
P4KE400	P4KE400C	360	440	1	324	5	0.7	574	DO-41
P4KE400A	P4KE400CA	380	420	1	342	5	0.73	548	DO-41
P4KE440	P4KE440C	396	484	1	356	5	0.95	631	DO-41
P4KE440A	P4KE440CA	418	462	1	376	5	1	602	DO-41
P4KE550	P4KE550C	495	605	1	445	5	0.5	800	DO-41
P4KE550A	P4KE550CA	522	577	1	470	5	0.53	754	DO-41

TVS/ESD/EMI Transient Voltage Supprssor

Part Number		Breakdown Voltage			Working Peak Reverse Voltage VRWM(V)	Maximin Reverse Leakage IR@VRWM (uA)	Maximum Reverse Surge Current Ipp (A)	Maximum Clamping Voltage Vc @Ipp (V)	Package
		V(BR) @IT							
Uni	Bi	Min(V)	Max(V)	IT(mA)					
400W FOR SURFACE MOUNT									
P4SMA6.8	P4SMA6.8C	6.12	7.48	10	5.5	1000	38	10.8	SMA
P4SMA6.8A	P4SMA6.8CA	6.45	7.14	10	5.8	1000	40	10.5	SMA
P4SMA7.5	P4SMA7.5C	6.75	8.25	10	6.05	500	36	11.7	SMA
P4SMA7.5A	P4SMA7.5CA	7.13	7.88	10	6.4	500	37	11.3	SMA
P4SMA8.2	P4SMA8.2C	7.38	9.02	10	6.63	200	33	12.5	SMA
P4SMA8.2A	P4SMA8.2CA	7.79	8.61	10	7.02	200	35	12.1	SMA
P4SMA9.1	P4SMA9.1C	8.19	10	1	7.37	50	30	13.8	SMA
P4SMA9.1A	P4SMA9.1CA	8.65	9.55	1	7.78	50	31	13.4	SMA
P4SMA10	P4SMA10C	9	11	1	8.1	10	28	15	SMA
P4SMA10A	P4SMA10CA	9.5	10.5	1	8.55	10	29	14.5	SMA
P4SMA11	P4SMA11C	9.9	12.1	1	8.92	5	26	16.2	SMA
P4SMA11A	P4SMA11CA	10.5	11.6	1	9.4	5	27	15.6	SMA
P4SMA12	P4SMA12C	10.8	13.2	1	9.72	5	24	17.3	SMA
P4SMA12A	P4SMA12CA	11.4	12.6	1	10.2	5	25	16.7	SMA
P4SMA13	P4SMA13C	11.7	14.3	1	10.5	5	22	19	SMA
P4SMA13A	P4SMA13CA	12.4	13.7	1	11.1	5	23	18.2	SMA
P4SMA15	P4SMA15C	13.5	16.5	1	12.1	5	19	22	SMA
P4SMA15A	P4SMA15CA	14.3	15.8	1	12.8	5	20	21.2	SMA
P4SMA16	P4SMA16C	14.4	17.6	1	12.9	5	18	23.5	SMA
P4SMA16A	P4SMA16CA	15.2	16.8	1	13.6	5	19	22.5	SMA
P4SMA17	P4SMA17C	15.3	18.7	1	13.7	5	17	25	SMA
P4SMA17A	P4SMA17CA	16.2	17.9	1	14.5	5	18	24	SMA
P4SMA18	P4SMA18C	16.2	19.8	1	14.5	5	16	26.5	SMA
P4SMA18A	P4SMA18CA	17.1	18.9	1	15.3	5	17	25.5	SMA
P4SMA20	P4SMA20C	18	22	1	16.2	5	14	29.1	SMA
P4SMA20A	P4SMA20CA	19	21	1	17.1	5	15	27.7	SMA
P4SMA22	P4SMA22C	19.8	24.2	1	17.8	5	13	31.9	SMA
P4SMA22A	P4SMA22CA	20.9	23.1	1	18.8	5	14	30.6	SMA
P4SMA24	P4SMA24C	21.6	26.4	1	19.4	5	12	34.7	SMA
P4SMA24A	P4SMA24CA	22.8	25.2	1	20.5	5	13	33.2	SMA
P4SMA27	P4SMA27C	24.3	29.7	1	21.8	5	11	39.1	SMA
P4SMA27A	P4SMA27CA	25.7	28.4	1	23.1	5	11.2	37.5	SMA
P4SMA30	P4SMA30C	27	33	1	24.3	5	10	43.5	SMA
P4SMA30A	P4SMA30CA	28.5	31.5	1	25.6	5	10	41.4	SMA
P4SMA33	P4SMA33C	29.7	36.6	1	26.8	5	9	47.7	SMA
P4SMA33A	P4SMA33CA	31.4	34.7	1	28.2	5	9	45.7	SMA
P4SMA36	P4SMA36C	32.4	39.6	1	29.1	5	8	52	SMA
P4SMA36A	P4SMA36CA	34.2	37.8	1	30.8	5	8.4	49.9	SMA
P4SMA39	P4SMA39C	35.1	42.9	1	31.6	5	7.4	56.4	SMA
P4SMA39A	P4SMA39CA	37.1	41	1	33.3	5	7.8	53.9	SMA
P4SMA43	P4SMA43C	38.7	47.3	1	34.8	5	6.8	61.9	SMA
P4SMA43A	P4SMA43CA	40.9	45.2	1	36.8	5	7.1	59.3	SMA

TVS/ESD/EMI Transient Voltage Supprssor

Part Number		Breakdown Voltage			Working Peak Reverse Voltage VRWM(V)	Maximin Reverse Leakage IR@VRWM (uA)	Maximum Reverse Surge Current Ipp (A)	Maximum Clamping Voltage Vc @Ipp (V)	Package
		V(BR) @IT							
Uni	Bi	Min(V)	Max(V)	IT(mA)					
400W FOR SURFACE MOUNT									
P4SMA47	P4SMA47C	42.3	51.7	1	38.1	5	6.2	67.8	SMA
P4SMA47A	P4SMA47CA	44.7	49.4	1	40.2	5	6.5	64.8	SMA
P4SMA51	P4SMA51C	45.9	56.1	1	41.3	5	5.7	73.5	SMA
P4SMA51A	P4SMA51CA	48.5	53.6	1	43.6	5	6	70.1	SMA
P4SMA56	P4SMA56C	50.4	61.6	1	45.4	5	5.2	80.5	SMA
P4SMA56A	P4SMA56CA	53.2	58.8	1	47.8	5	5.5	77	SMA
P4SMA62	P4SMA62C	55.8	68.2	1	50.2	5	4.7	89	SMA
P4SMA62A	P4SMA62CA	58.9	65.1	1	53	5	5	85	SMA
P4SMA68	P4SMA68C	61.2	74.8	1	55.1	5	4.3	98	SMA
P4SMA68A	P4SMA68CA	64.6	71.4	1	58.1	5	4.6	92	SMA
P4SMA75	P4SMA75C	67.5	82.5	1	60.7	5	3.9	108	SMA
P4SMA75A	P4SMA75CA	71.3	78.8	1	64.1	5	4.1	103	SMA
P4SMA82	P4SMA82C	73.8	90.2	1	66.4	5	3.6	118	SMA
P4SMA82A	P4SMA82CA	77.9	86.1	1	70.1	5	3.7	113	SMA
P4SMA91	P4SMA91C	81.9	100	1	73.7	5	3.2	131	SMA
P4SMA91A	P4SMA91CA	86.5	95.5	1	77.8	5	3.4	125	SMA
P4SMA100	P4SMA100C	90	110	1	81	5	2.9	144	SMA
P4SMA100A	P4SMA100CA	95	105	1	85.5	5	3.1	137	SMA
P4SMA110	P4SMA110C	99	121	1	89.2	5	2.7	158	SMA
P4SMA110A	P4SMA110CA	105	116	1	91	5	2.8	152	SMA
P4SMA120	P4SMA120C	108	132	1	97.2	5	2.4	173	SMA
P4SMA120A	P4SMA120CA	114	126	1	102	5	2.5	165	SMA
P4SMA130	P4SMA130C	117	143	1	105	5	2.2	187	SMA
P4SMA130A	P4SMA130CA	124	137	1	111	5	2.3	179	SMA
P4SMA150	P4SMA150C	135	165	1	121	5	2	215	SMA
P4SMA150A	P4SMA150CA	143	158	1	128	5	2	207	SMA
P4SMA160	P4SMA160C	144	176	1	130	5	1.8	230	SMA
P4SMA160A	P4SMA160CA	152	168	1	136	5	1.9	219	SMA
P4SMA170	P4SMA170C	153	187	1	138	5	1.7	244	SMA
P4SMA170A	P4SMA170CA	162	179	1	145	5	1.8	234	SMA
P4SMA180	P4SMA180C	162	198	1	146	5	1.6	258	SMA
P4SMA180A	P4SMA180CA	171	189	1	154	5	1.7	246	SMA
P4SMA200	P4SMA200C	180	220	1	162	5	1.5	287	SMA
P4SMA200A	P4SMA200CA	190	210	1	171	5	1.53	274	SMA
P4SMA220	P4SMA220C	198	242	1	175	5	1.16	344	SMA
P4SMA220A	P4SMA220CA	209	231	1	185	5	1.22	328	SMA
P4SMA250	P4SMA250C	225	275	1	202	5	1.11	360	SMA
P4SMA250A	P4SMA250CA	237	263	1	214	5	1.16	344	SMA
P4SMA300	P4SMA300C	270	330	1	243	5	0.93	430	SMA
P4SMA300A	P4SMA300CA	285	315	1	256	5	0.97	414	SMA
P4SMA350	P4SMA350C	315	385	1	284	5	0.79	504	SMA
P4SMA350A	P4SMA350CA	332	368	1	300	5	0.83	482	SMA

TVS/ESD/EMI Transient Voltage Supprssor

Part Number		Breakdown Voltage			Working Peak Reverse Voltage VRWM(V)	Maximin Reverse Leakage IR@VRWM (uA)	Maximum Reverse Surge Current Ipp (A)	Maximum Clamping Voltage Vc @Ipp (V)	Package
		V(BR) @IT							
Uni	Bi	Min(V)	Max(V)	IT(mA)					
400W FOR SURFACE MOUNT									
P4SMA400	P4SMA400C	360	440	1	324	5	0.7	574	SMA
P4SMA400A	P4SMA400CA	380	420	1	342	5	0.73	548	SMA
P4SMA440	P4SMA440C	396	484	1	356	5	0.95	631	SMA
P4SMA440A	P4SMA440CA	418	462	1	376	5	1	602	SMA
P4SMA400	P4SMA400C	360	440	1	324	5	0.7	574	SMA
P4SMA400A	P4SMA400CA	380	420	1	342	5	0.73	548	SMA

TVS/ESD/EMI Transient Voltage Supprssor

Part Number		Breakdown Voltage			Working Peak Reverse Voltage VRWM(V)	Maximin Reverse Leakage IR@VRWM (uA)	Maximum Reverse Surge Current Ipp (A)	Maximum Clamping Voltage Vc @Ipp (V)	Package
		V(BR) @IT							
Uni	Bi	Min(V)	Max(V)	IT(mA)					
600W FOR AXIAL LEAD									
P6KE6.8	P6KE6.8C	6.12	7.48	10	5.5	1000	38	10.8	DO-15
P6KE6.8A	P6KE6.8CA	6.45	7.14	10	5.8	1000	40	10.5	DO-15
P6KE7.5	P6KE7.5C	6.75	8.25	10	6.05	500	36	11.7	DO-15
P6KE7.5A	P6KE7.5CA	7.13	7.88	10	6.4	500	37	11.3	DO-15
P6KE8.2	P6KE8.2C	7.38	9.02	10	6.63	200	33	12.5	DO-15
P6KE8.2A	P6KE8.2CA	7.79	8.61	10	7.02	200	35	12.1	DO-15
P6KE8.5	P6KE8.5C	8.19	10	1	7.37	50	30	13.8	DO-15
P6KE8.5A	P6KE8.5CA	8.65	9.55	1	7.78	50	31	13.4	DO-15
P6KE9.1	P6KE9.1C	9	11	1	8.1	10	28	15	DO-15
P6KE9.1A	P6KE9.1CA	9.5	10.5	1	8.55	10	29	14.5	DO-15
P6KE10	P6KE10C	9.9	12.1	1	8.92	5	26	16.2	DO-15
P6KE10A	P6KE10CA	10.5	11.6	1	9.4	5	27	15.6	DO-15
P6KE11	P6KE11C	10.8	13.2	1	9.72	5	24	17.3	DO-15
P6KE11A	P6KE11CA	11.4	12.6	1	10.2	5	25	16.7	DO-15
P6KE12	P6KE12C	11.7	14.3	1	10.5	5	22	19	DO-15
P6KE12A	P6KE12CA	12.4	13.7	1	11.1	5	23	18.2	DO-15
P6KE13	P6KE13C	13.5	16.5	1	12.1	5	19	22	DO-15
P6KE13A	P6KE13CA	14.3	15.8	1	12.8	5	20	21.2	DO-15
P6KE15	P6KE15C	14.4	17.6	1	12.9	5	18	23.5	DO-15
P6KE15A	P6KE15CA	15.2	16.8	1	13.6	5	19	22.5	DO-15
P6KE16	P6KE16C	15.3	18.7	1	13.7	5	17	25	DO-15
P6KE16A	P6KE16CA	16.2	17.9	1	14.5	5	18	24	DO-15
P6KE18	P6KE18C	16.2	19.8	1	14.5	5	16	26.5	DO-15
P6KE18A	P6KE18CA	17.1	18.9	1	15.3	5	17	25.5	DO-15
P6KE20	P6KE20C	18	22	1	16.2	5	14	29.1	DO-15
P6KE20A	P6KE20CA	19	21	1	17.1	5	15	27.7	DO-15
P6KE22	P6KE22C	19.8	24.2	1	17.8	5	13	31.9	DO-15
P6KE22A	P6KE22CA	20.9	23.1	1	18.8	5	14	30.6	DO-15
P6KE24	P6KE24C	21.6	26.4	1	19.4	5	12	34.7	DO-15
P6KE24A	P6KE24CA	22.8	25.2	1	20.5	5	13	33.2	DO-15
P6KE27	P6KE27C	24.3	29.7	1	21.8	5	11	39.1	DO-15
P6KE27A	P6KE27CA	25.7	28.4	1	23.1	5	11.2	37.5	DO-15
P6KE30	P6KE30C	27	33	1	24.3	5	10	43.5	DO-15
P6KE30A	P6KE30CA	28.5	31.5	1	25.6	5	10	41.4	DO-15
P6KE33	P6KE33C	29.7	36.6	1	26.8	5	9	47.7	DO-15
P6KE33A	P6KE33CA	31.4	34.7	1	28.2	5	9	45.7	DO-15
P6KE36	P6KE36C	32.4	39.6	1	29.1	5	8	52	DO-15
P6KE36A	P6KE36CA	34.2	37.8	1	30.8	5	8.4	49.9	DO-15
P6KE39	P6KE39C	35.1	42.9	1	31.6	5	7.4	56.4	DO-15
P6KE39A	P6KE39CA	37.1	41	1	33.3	5	7.8	53.9	DO-15
P6KE43	P6KE43C	38.7	47.3	1	34.8	5	6.8	61.9	DO-15
P6KE43A	P6KE43CA	40.9	45.2	1	36.8	5	7.1	59.3	DO-15

TVS/ESD/EMI Transient Voltage Supprssor

Part Number		Breakdown Voltage			Working Peak Reverse Voltage VRWM(V)	Maximin Reverse Leakage IR@VRWM (uA)	Maximum Reverse Surge Current Ipp (A)	Maximum Clamping Voltage Vc @Ipp (V)	Package
		V(BR) @IT							
Uni	Bi	Min(V)	Max(V)	IT(mA)					
600W FOR AXIAL LEAD									
P6KE47	P6KE47C	42.3	51.7	1	38.1	5	6.2	67.8	DO-15
P6KE47A	P6KE47CA	44.7	49.4	1	40.2	5	6.5	64.8	DO-15
P6KE51	P6KE51C	45.9	56.1	1	41.3	5	5.7	73.5	DO-15
P6KE51A	P6KE51CA	48.5	53.6	1	43.6	5	6	70.1	DO-15
P6KE56	P6KE56C	50.4	61.6	1	45.4	5	5.2	80.5	DO-15
P6KE56A	P6KE56CA	53.2	58.8	1	47.8	5	5.5	77	DO-15
P6KE62	P6KE62C	55.8	68.2	1	50.2	5	4.7	89	DO-15
P6KE62A	P6KE62CA	58.9	65.1	1	53	5	5	85	DO-15
P6KE68	P6KE68C	61.2	74.8	1	55.1	5	4.3	98	DO-15
P6KE68A	P6KE68CA	64.6	71.4	1	58.1	5	4.6	92	DO-15
P6KE75	P6KE75C	67.5	82.5	1	60.7	5	3.9	108	DO-15
P6KE75A	P6KE75CA	71.3	78.8	1	64.1	5	4.1	103	DO-15
P6KE82	P6KE82C	73.8	90.2	1	66.4	5	3.6	118	DO-15
P6KE82A	P6KE82CA	77.9	86.1	1	70.1	5	3.7	113	DO-15
P6KE91	P6KE91C	81.9	100	1	73.7	5	3.2	131	DO-15
P6KE91A	P6KE91CA	86.5	95.5	1	77.8	5	3.4	125	DO-15
P6KE100	P6KE100C	90	110	1	81	5	2.9	144	DO-15
P6KE100A	P6KE100CA	95	105	1	85.5	5	3.1	137	DO-15
P6KE110	P6KE110C	99	121	1	89.2	5	2.7	158	DO-15
P6KE110A	P6KE110CA	105	116	1	91	5	2.8	152	DO-15
P6KE120	P6KE120C	108	132	1	97.2	5	2.4	173	DO-15
P6KE120A	P6KE120CA	114	126	1	102	5	2.5	165	DO-15
P6KE130	P6KE130C	117	143	1	105	5	2.2	187	DO-15
P6KE130A	P6KE130CA	124	137	1	111	5	2.3	179	DO-15
P6KE150	P6KE150C	135	165	1	121	5	2	215	DO-15
P6KE150A	P6KE150CA	143	158	1	128	5	2	207	DO-15
P6KE47	P6KE47C	42.3	51.7	1	38.1	5	6.2	67.8	DO-15
P6KE47A	P6KE47CA	44.7	49.4	1	40.2	5	6.5	64.8	DO-15
P6KE51	P6KE51C	45.9	56.1	1	41.3	5	5.7	73.5	DO-15
P6KE51A	P6KE51CA	48.5	53.6	1	43.6	5	6	70.1	DO-15
P6KE56	P6KE56C	50.4	61.6	1	45.4	5	5.2	80.5	DO-15
P6KE56A	P6KE56CA	53.2	58.8	1	47.8	5	5.5	77	DO-15
P6KE62	P6KE62C	55.8	68.2	1	50.2	5	4.7	89	DO-15
P6KE62A	P6KE62CA	58.9	65.1	1	53	5	5	85	DO-15
P6KE68	P6KE68C	61.2	74.8	1	55.1	5	4.3	98	DO-15
P6KE68A	P6KE68CA	64.6	71.4	1	58.1	5	4.6	92	DO-15
P6KE75	P6KE75C	67.5	82.5	1	60.7	5	3.9	108	DO-15
P6KE75A	P6KE75CA	71.3	78.8	1	64.1	5	4.1	103	DO-15
P6KE82	P6KE82C	73.8	90.2	1	66.4	5	3.6	118	DO-15
P6KE82A	P6KE82CA	77.9	86.1	1	70.1	5	3.7	113	DO-15
P6KE91	P6KE91C	81.9	100	1	73.7	5	3.2	131	DO-15
P6KE91A	P6KE91CA	86.5	95.5	1	77.8	5	3.4	125	DO-15

TVS/ESD/EMI Transient Voltage Supprssor

Part Number		Breakdown Voltage			Working Peak Reverse Voltage VRWM(V)	Maximin Reverse Leakage IR@VRWM (uA)	Maximum Reverse Surge Current Ipp (A)	Maximum Clamping Voltage Vc @Ipp (V)	Package
		V(BR) @IT							
Uni	Bi	Min(V)	Max(V)	IT(mA)					
600W FOR AXIAL LEAD									
P6KE100	P6KE100C	90	110	1	81	5	2.9	144	DO-15
P6KE100A	P6KE100CA	95	105	1	85.5	5	3.1	137	DO-15
P6KE110	P6KE110C	99	121	1	89.2	5	2.7	158	DO-15
P6KE110A	P6KE110CA	105	116	1	91	5	2.8	152	DO-15
P6KE120	P6KE120C	108	132	1	97.2	5	2.4	173	DO-15
P6KE120A	P6KE120CA	114	126	1	102	5	2.5	165	DO-15
P6KE130	P6KE130C	117	143	1	105	5	2.2	187	DO-15
P6KE130A	P6KE130CA	124	137	1	111	5	2.3	179	DO-15
P6KE150	P6KE150C	135	165	1	121	5	2	215	DO-15
P6KE150A	P6KE150CA	143	158	1	128	5	2	207	DO-15
P6KE160	P6KE160C	144	176	1	130	5	1.8	230	DO-15
P6KE160A	P6KE160CA	152	168	1	136	5	1.9	219	DO-15
P6KE170	P6KE170C	153	187	1	138	5	1.7	244	DO-15
P6KE170A	P6KE170CA	162	179	1	145	5	1.8	234	DO-15
P6KE180	P6KE180C	162	198	1	146	5	1.6	258	DO-15
P6KE180A	P6KE180CA	171	189	1	154	5	1.7	246	DO-15
P6KE200	P6KE200C	180	220	1	162	5	1.5	287	DO-15
P6KE200A	P6KE200CA	190	210	1	171	5	1.53	274	DO-15
P6KE220	P6KE220C	198	242	1	175	5	1.16	344	DO-15
P6KE220A	P6KE220CA	209	231	1	185	5	1.22	328	DO-15
P6KE250	P6KE250C	225	275	1	202	5	1.11	360	DO-15
P6KE250A	P6KE250CA	237	263	1	214	5	1.16	344	DO-15
P6KE300	P6KE300C	270	330	1	243	5	0.93	430	DO-15
P6KE300A	P6KE300CA	285	315	1	256	5	0.97	414	DO-15
P6KE350	P6KE350C	315	385	1	284	5	0.79	504	DO-15
P6KE350A	P6KE350CA	332	368	1	300	5	0.83	482	DO-15
P6KE400	P6KE400C	360	440	1	324	5	0.7	574	DO-15
P6KE400A	P6KE400CA	380	420	1	342	5	0.73	548	DO-15
P6KE440	P6KE440C	396	484	1	356	5	0.95	631	DO-15
P6KE440A	P6KE440CA	418	462	1	376	5	1	602	DO-15
P6KE480	P6KE480C	432	528	1	389	5	0.88	686	DO-15
P6KE480A	P6KE480CA	456	504	1	408	5	0.9	658	DO-15
P6KE510	P6KE510C	459	561	1	413	5	0.82	729	DO-15
P6KE510A	P6KE510CA	485	535	1	434	5	0.86	698	DO-15
P6KE530	P6KE530C	477	583	1	457	5	0.76	798	DO-15
P6KE530A	P6KE530CA	503	556.5	1	477	5	0.8	725	DO-15
P6KE540	P6KE540C	486	594	1	437	5	0.78	772	DO-15
P6KE540A	P6KE540CA	513	567	1	459	5	0.81	740	DO-15
P6KE550	P6KE550C	495	605	1	470	5	0.76	836	DO-15
P6KE550A	P6KE550CA	522.5	577.5	1	495	5	0.8	760	DO-15
P6KE600	P6KE600C	540	660	1	490	5	0.71	911	DO-15
P6KE600A	P6KE600CA	570	630	1	512	5	0.75	828	DO-15

TVS/ESD/EMI Transient Voltage Supprssor

Part Number		Breakdown Voltage			Working Peak Reverse Voltage VRWM(V)	Maximin Reverse Leakage IR@VRWM (uA)	Maximum Reverse Surge Current Ipp (A)	Maximum Clamping Voltage Vc @Ipp (V)	Package
		V(BR) @IT							
Uni	Bi	Min(V)	Max(V)	IT(mA)					
600W FOR SURFACE MOUNT									
SMA6FL6.8A	-	6.45	7.14	10	5.8	1000	57	10.5	SMAF
SMA6FL7.5A	-	7.13	7.88	10	6.4	500	53	11.3	SMAF
SMA6FL8.2A	-	7.79	8.61	10	7.02	200	50	12.1	SMAF
SMA6FL9.1A	-	8.65	9.55	1	7.78	50	45	13.4	SMAF
SMA6FL10A	-	9.5	10.5	1	8.55	10	41	14.5	SMAF
SMA6FL11A	-	10.5	11.6	1	9.4	5	38	15.6	SMAF
SMA6FL12A	-	11.4	12.6	1	10.2	5	36	16.7	SMAF
SMA6FL13A	-	12.4	13.7	1	11.1	5	33	18.2	SMAF
SMA6FL15A	-	14.3	15.8	1	12.8	5	28	21.2	SMAF
SMA6FL16A	-	15.2	16.8	1	13.6	5	27	22.5	SMAF
SMA6FL18A	-	17.1	18.9	1	15.3	5	24	25.2	SMAF
SMA6FL20A	-	19	21	1	17.1	5	22	27.7	SMAF
SMA6FL22A	-	20.9	23.1	1	18.8	5	20	30.6	SMAF
SMA6FL24A	-	22.8	25.2	1	20.5	5	18	33.2	SMAF
SMA6FL27A	-	25.7	28.4	1	23.1	5	16	37.5	SMAF
SMA6FL30A	-	28.5	31.5	1	25.6	5	14.4	41.4	SMAF
SMA6FL33A	-	31.4	34.7	1	28.2	5	13.2	45.7	SMAF
SMA6FL36A	-	34.2	37.8	1	30.8	5	12	49.9	SMAF
SMA6FL39A	-	37.1	41	1	33.3	5	11.2	53.9	SMAF
SMA6FL43A	-	40.9	45.2	1	36.8	5	10.1	59.3	SMAF
SMA6FL47A	-	44.7	49.4	1	40.2	5	9.3	64.8	SMAF
SMA6FL51A	-	48.5	53.6	1	43.6	5	8.6	70.1	SMAF
SMA6FL56A	-	53.2	58.8	1	47.8	5	7.8	77	SMAF

TVS/ESD/EMI Transient Voltage Supprssor

Part Number		Breakdown Voltage			Working Peak Reverse Voltage VRWM(V)	Maximin Reverse Leakage IR@VRWM (uA)	Maximum Reverse Surge Current Ipp (A)	Maximum Clamping Voltage Vc @Ipp (V)	Package
		V(BR) @IT							
Uni	Bi	Min(V)	Max(V)	IT(mA)					
600W FOR SURFACE MOUNT									
SMA6F6.8A	-	6.45	7.14	10	5.8	1000	57	10.5	SMA
SMA6F7.5A	-	7.13	7.88	10	6.4	500	53	11.3	SMA
SMA6F8.2A	-	7.79	8.61	10	7.02	200	50	12.1	SMA
SMA6F9.1A	-	8.65	9.55	1	7.78	50	45	13.4	SMA
SMA6F10A	-	9.5	10.5	1	8.55	10	41	14.5	SMA
SMA6F11A	-	10.5	11.6	1	9.4	5	38	15.6	SMA
SMA6F12A	-	11.4	12.6	1	10.2	5	36	16.7	SMA
SMA6F13A	-	12.4	13.7	1	11.1	5	33	18.2	SMA
SMA6F15A	-	14.3	15.8	1	12.8	5	28	21.2	SMA
SMA6F16A	-	15.2	16.8	1	13.6	5	27	22.5	SMA
SMA6F18A	-	17.1	18.9	1	15.3	5	24	25.2	SMA
SMA6F20A	-	19	21	1	17.1	5	22	27.7	SMA
SMA6F22A	-	20.9	23.1	1	18.8	5	20	30.6	SMA
SMA6F24A	-	22.8	25.2	1	20.5	5	18	33.2	SMA
SMA6F27A	-	25.7	28.4	1	23.1	5	16	37.5	SMA
SMA6F30A	-	28.5	31.5	1	25.6	5	14.4	41.4	SMA
SMA6F33A	-	31.4	34.7	1	28.2	5	13.2	45.7	SMA
SMA6F36A	-	34.2	37.8	1	30.8	5	12	49.9	SMA
SMA6F39A	-	37.1	41	1	33.3	5	11.2	53.9	SMA
SMA6F43A	-	40.9	45.2	1	36.8	5	10.1	59.3	SMA
SMA6F47A	-	44.7	49.4	1	40.2	5	9.3	64.8	SMA
SMA6F51A	-	48.5	53.6	1	43.6	5	8.6	70.1	SMA
SMA6F56A	-	53.2	58.8	1	47.8	5	7.8	77	SMA

TVS/ESD/EMI Transient Voltage Supprssor

Part Number		Breakdown Voltage			Working Peak Reverse Voltage VRWM(V)	Maximin Reverse Leakage IR@VRWM (uA)	Maximum Reverse Surge Current Ipp (A)	Maximum Clamping Voltage Vc @Ipp (V)	Package
		V(BR) @IT							
Uni	Bi	Min(V)	Max(V)	IT(mA)					
600W FOR SURFACE MOUNT									
P6SMB6.8A	P6SMB6.8CA	6.45	7.14	10	5.8	1000	57	10.5	SMB
P6SMB7.5A	P6SMB7.5CA	7.13	7.88	10	6.4	500	53	11.3	SMB
P6SMB8.2A	P6SMB8.2CA	7.79	8.61	10	7.02	200	50	12.1	SMB
P6SMB9.1A	P6SMB9.1CA	8.65	9.55	1	7.78	50	45	13.4	SMB
P6SMB10A	P6SMB10CA	9.5	10.5	1	8.55	10	41	14.5	SMB
P6SMB11A	P6SMB11CA	10.5	11.6	1	9.4	5	38	15.6	SMB
P6SMB12A	P6SMB12CA	11.4	12.6	1	10.2	5	36	16.7	SMB
P6SMB13A	P6SMB13CA	12.4	13.7	1	11.1	5	33	18.2	SMB
P6SMB15A	P6SMB15CA	14.3	15.8	1	12.8	5	28	21.2	SMB
P6SMB16A	P6SMB16CA	15.2	16.8	1	13.6	5	27	22.5	SMB
P6SMB18A	P6SMB18CA	17.1	18.9	1	15.3	5	24	25.2	SMB
P6SMB20A	P6SMB20CA	19	21	1	17.1	5	22	27.7	SMB
P6SMB22A	P6SMB22CA	20.9	23.1	1	18.8	5	20	30.6	SMB
P6SMB24A	P6SMB24CA	22.8	25.2	1	20.5	5	18	33.2	SMB
P6SMB27A	P6SMB27CA	25.7	28.4	1	23.1	5	16	37.5	SMB
P6SMB30A	P6SMB30CA	28.5	31.5	1	25.6	5	14.4	41.4	SMB
P6SMB33A	P6SMB33CA	31.4	34.7	1	28.2	5	13.2	45.7	SMB
P6SMB36A	P6SMB36CA	34.2	37.8	1	30.8	5	12	49.9	SMB
P6SMB39A	P6SMB39CA	37.1	41	1	33.3	5	11.2	53.9	SMB
P6SMB43A	P6SMB43CA	40.9	45.2	1	36.8	5	10.1	59.3	SMB
P6SMB47A	P6SMB47CA	44.7	49.4	1	40.2	5	9.3	64.8	SMB
P6SMB51A	P6SMB51CA	48.5	53.6	1	43.6	5	8.6	70.1	SMB
P6SMB56A	P6SMB56CA	53.2	58.8	1	47.8	5	7.8	77	SMB
P6SMB56A	P6SMB56CA	53.2	58.8	1	47.8	5	7.8	77	SMB
P6SMB62A	P6SMB62CA	58.9	65.1	1	53	5	7.1	85	SMB
P6SMB68A	P6SMB68CA	64.6	71.4	1	58.1	5	6.5	92	SMB
P6SMB75A	P6SMB75CA	71.3	78.8	1	64.1	5	5.8	103	SMB
P6SMB82A	P6SMB82CA	77.9	86.1	1	70.1	5	5.3	113	SMB
P6SMB91A	P6SMB91CA	86.5	95.5	1	77.8	5	4.8	125	SMB
P6SMB100A	P6SMB100CA	95	105	1	85.5	5	4.4	137	SMB
P6SMB110A	P6SMB110CA	105	116	1	94	5	4	152	SMB
P6SMB120A	P6SMB120CA	114	126	1	102	5	3.6	165	SMB
P6SMB130A	P6SMB130CA	124	137	1	111	5	3.3	179	SMB
P6SMB150A	P6SMB150CA	143	158	1	128	5	2.9	207	SMB
P6SMB160A	P6SMB160CA	152	168	1	136	5	2.7	219	SMB
P6SMB170A	P6SMB170CA	162	179	1	145	5	2.6	234	SMB
P6SMB180A	P6SMB180CA	171	189	1	154	5	2.4	246	SMB
P6SMB200A	P6SMB200CA	190	210	1	171	5	2.2	274	SMB
P6SMB220A	P6SMB220CA	209	231	1	185	5	1.83	328	SMB
P6SMB250A	P6SMB250CA	237	263	1	214	5	1.75	344	SMB
P6SMB300A	P6SMB300CA	285	315	1	256	5	1.45	414	SMB
P6SMB350A	P6SMB350CA	332	368	1	300	5	1.25	482	SMB

**TVS/ESD/EMI
Transient Voltage Supprssor**

Part Number		Breakdown Voltage			Working Peak Reverse Voltage VRWM(V)	Maximin Reverse Leakage IR@VRWM (uA)	Maximum Reverse Surge Current Ipp (A)	Maximum Clamping Voltage Vc @Ipp (V)	Package
		V(BR) @IT							
Uni	Bi	Min(V)	Max(V)	IT(mA)					
600W FOR SURFACE MOUNT									
P6SMB400A	P6SMB400CA	380	420	1	342	5	1.1	548	SMB
P6SMB440A	P6SMB440CA	418	462	1	376	5	1	602	SMB

TVS/ESD/EMI Transient Voltage Supprssor

Part Number		Breakdown Voltage			Working Peak Reverse Voltage VRWM(V)	Maximin Reverse Leakage IR@VRWM (uA)	Maximum Reverse Surge Current Ipp (A)	Maximum Clamping Voltage Vc @Ipp (V)	Package
		V(BR) @IT							
Uni	Bi	Min(V)	Max(V)	IT(mA)					
600W FOR SURFACE MOUNT									
SMBJ5.0	SMBJ5.0C	6.4	7.82	10	5	800	62.5	9.6	SMB
SMBJ5.0A	SMBJ5.0CA	6.4	7.07	10	5	800	62.5	9.2	SMB
SMBJ6.0	SMBJ6.0C	6.67	8.15	10	6	800	52.6	11.4	SMB
SMBJ6.0A	SMBJ6.0CA	6.67	7.37	10	6	800	58.3	10.3	SMB
SMBJ6.5	SMBJ6.5C	7.22	8.82	10	6.5	500	48.7	12.3	SMB
SMBJ6.5A	SMBJ6.5CA	7.22	7.98	10	6.5	500	53.6	11.2	SMB
SMBJ7.0	SMBJ7.0C	7.78	9.51	10	7	200	45.1	13.3	SMB
SMBJ7.0A	SMBJ7.0CA	7.78	8.6	10	7	200	50	12	SMB
SMBJ7.5	SMBJ7.5C	8.33	10.2	1	7.5	100	42	14.3	SMB
SMBJ7.5A	SMBJ7.5CA	8.33	9.21	1	7.5	100	46.5	12.9	SMB
SMBJ8.0	SMBJ8.0C	8.89	10.9	1	8	50	40	15	SMB
SMBJ8.0A	SMBJ8.0CA	8.89	9.83	1	8	50	44.1	13.6	SMB
SMBJ8.5	SMBJ8.5C	9.44	11.5	1	8.5	10	37.7	15.9	SMB
SMBJ8.5A	SMBJ8.5CA	9.44	10.4	1	8.5	10	41.7	14.4	SMB
SMBJ9.0	SMBJ9.0C	10	12.2	1	9	5	35.5	16.9	SMB
SMBJ9.0A	SMBJ9.0CA	10	11.1	1	9	5	39	15.4	SMB
SMBJ10	SMBJ10C	11.1	13.6	1	10	1	31.9	18.8	SMB
SMBJ10A	SMBJ10CA	11.1	12.3	1	10	1	35.3	17	SMB
SMBJ11	SMBJ11C	12.2	14.9	1	11	1	29.9	20.1	SMB
SMBJ11A	SMBJ11CA	12.2	13.5	1	11	1	33	18.2	SMB
SMBJ12	SMBJ12C	13.3	16.3	1	12	1	27.3	22	SMB
SMBJ12A	SMBJ12CA	13.3	14.7	1	12	1	30.2	19.9	SMB
SMBJ13	SMBJ13C	14.4	17.6	1	13	1	25.2	23.8	SMB
SMBJ13A	SMBJ13CA	14.4	15.9	1	13	1	27.9	21.5	SMB
SMBJ14	SMBJ14C	15.6	19.1	1	14	1	23.3	25.8	SMB
SMBJ14A	SMBJ14CA	15.6	17.2	1	14	1	25.8	23.2	SMB
SMBJ15	SMBJ15C	16.7	20.4	1	15	1	22.3	26.9	SMB
SMBJ15A	SMBJ15CA	16.7	18.5	1	15	1	24	24.4	SMB
SMBJ16	SMBJ16C	17.8	21.8	1	16	1	20.8	28.8	SMB
SMBJ16A	SMBJ16CA	17.8	19.7	1	16	1	23.1	26	SMB
SMBJ17	SMBJ17C	18.9	23.1	1	17	1	19.7	30.5	SMB
SMBJ17A	SMBJ17CA	18.9	20.9	1	17	1	21.7	27.6	SMB
SMBJ18	SMBJ18C	20	24.4	1	18	1	18.6	32.2	SMB
SMBJ18A	SMBJ18CA	20	22.1	1	18	1	20.5	29.2	SMB
SMBJ20	SMBJ20C	22.2	27.1	1	20	1	16.7	35.8	SMB
SMBJ20A	SMBJ20CA	22.2	24.5	1	20	1	18.5	32.4	SMB
SMBJ22	SMBJ22C	24.4	29.8	1	22	1	15.2	39.4	SMB
SMBJ22A	SMBJ22CA	24.4	26.9	1	22	1	16.9	35.5	SMB
SMBJ24	SMBJ24C	26.7	32.6	1	24	1	14	43	SMB
SMBJ24A	SMBJ24CA	26.7	29.5	1	24	1	15.4	38.9	SMB
SMBJ26	SMBJ26C	28.9	35.3	1	26	1	12.4	46.6	SMB
SMBJ26A	SMBJ26CA	28.9	31.9	1	26	1	14.2	42.1	SMB

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Part Number		Breakdown Voltage			Working Peak Reverse Voltage VRWM(V)	Maximin Reverse Leakage IR@VRWM (uA)	Maximum Reverse Surge Current Ipp (A)	Maximum Clamping Voltage Vc @Ipp (V)	Package
		V(BR) @IT	Min(V)	Max(V)					
Uni	Bi	Min(V)	Max(V)	IT(mA)	Voltage VRWM(V)	IR@VRWM (uA)	Current Ipp (A)	Vc @Ipp (V)	
600W FOR SURFACE MOUNT									
SMBJ28	SMBJ28C	31.1	38	1	28	1	12	50	SMB
SMBJ28A	SMBJ28CA	31.1	34.4	1	28	1	13.2	45.4	SMB
SMBJ30	SMBJ30C	33.3	40.7	1	30	1	11.2	53.5	SMB
SMBJ30A	SMBJ30CA	33.3	36.8	1	30	1	12.4	48.4	SMB
SMBJ33	SMBJ33C	36.7	44.9	1	33	1	10.2	59	SMB
SMBJ33A	SMBJ33CA	36.7	40.6	1	33	1	11.3	53.3	SMB
SMBJ36	SMBJ36C	40	48.9	1	36	1	9.3	64.3	SMB
SMBJ36A	SMBJ36CA	40	44.2	1	36	1	10.3	58.1	SMB
SMBJ40	SMBJ40C	44.4	54.3	1	40	1	8.4	71.4	SMB
SMBJ40A	SMBJ40CA	44.4	49.1	1	40	1	9.3	64.5	SMB
SMBJ43	SMBJ43C	47.8	58.4	1	43	1	7.8	76.7	SMB
SMBJ43A	SMBJ43CA	47.8	52.8	1	43	1	8.6	69.4	SMB
SMBJ45	SMBJ45C	50	61.1	1	45	1	7.5	80.3	SMB
SMBJ45A	SMBJ45CA	50	55.3	1	45	1	8.3	72.7	SMB
SMBJ48	SMBJ48C	53.3	65.1	1	48	1	7	85.5	SMB
SMBJ48A	SMBJ48CA	53.3	58.9	1	48	1	7.7	77.4	SMB
SMBJ51	SMBJ51C	56.7	69.3	1	51	1	6.6	91.1	SMB
SMBJ51A	SMBJ51CA	56.7	62.7	1	51	1	7.3	82.4	SMB
SMBJ54	SMBJ54C	60	73.3	1	54	1	6.2	96.3	SMB
SMBJ54A	SMBJ54CA	60	66.3	1	54	1	6.9	87.1	SMB
SMBJ58	SMBJ58C	64.4	78.7	1	58	1	5.8	103	SMB
SMBJ58A	SMBJ58CA	64.4	71.2	1	58	1	6.4	93.6	SMB
SMBJ60	SMBJ60C	66.7	81.5	1	60	1	5.6	107	SMB
SMBJ60A	SMBJ60CA	66.7	73.7	1	60	1	6.2	9.8	SMB
SMBJ28	SMBJ28C	31.1	38	1	28	1	12	50	SMB
SMBJ28A	SMBJ28CA	31.1	34.4	1	28	1	13.2	45.4	SMB
SMBJ30	SMBJ30C	33.3	40.7	1	30	1	11.2	53.5	SMB
SMBJ30A	SMBJ30CA	33.3	36.8	1	30	1	12.4	48.4	SMB
SMBJ33	SMBJ33C	36.7	44.9	1	33	1	10.2	59	SMB
SMBJ33A	SMBJ33CA	36.7	40.6	1	33	1	11.3	53.3	SMB
SMBJ36	SMBJ36C	40	48.9	1	36	1	9.3	64.3	SMB
SMBJ36A	SMBJ36CA	40	44.2	1	36	1	10.3	58.1	SMB
SMBJ40	SMBJ40C	44.4	54.3	1	40	1	8.4	71.4	SMB
SMBJ40A	SMBJ40CA	44.4	49.1	1	40	1	9.3	64.5	SMB
SMBJ43	SMBJ43C	47.8	58.4	1	43	1	7.8	76.7	SMB
SMBJ43A	SMBJ43CA	47.8	52.8	1	43	1	8.6	69.4	SMB
SMBJ45	SMBJ45C	50	61.1	1	45	1	7.5	80.3	SMB
SMBJ45A	SMBJ45CA	50	55.3	1	45	1	8.3	72.7	SMB
SMBJ48	SMBJ48C	53.3	65.1	1	48	1	7	85.5	SMB
SMBJ48A	SMBJ48CA	53.3	58.9	1	48	1	7.7	77.4	SMB
SMBJ51	SMBJ51C	56.7	69.3	1	51	1	6.6	91.1	SMB
SMBJ51A	SMBJ51CA	56.7	62.7	1	51	1	7.3	82.4	SMB

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Part Number		Breakdown Voltage			Working Peak Reverse Voltage VRWM(V)	Maximin Reverse Leakage IR@VRWM (uA)	Maximum Reverse Surge Current Ipp (A)	Maximum Clamping Voltage Vc @Ipp (V)	Package
		V(BR) @IT							
Uni	Bi	Min(V)	Max(V)	IT(mA)					
600W FOR SURFACE MOUNT									
SMBJ54C	SMBJ54C	60	73.3	1	54	1	6.2	96.3	SMB
SMBJ54CA	SMBJ54CA	60	66.3	1	54	1	6.9	87.1	SMB
SMBJ58C	SMBJ58C	64.4	78.7	1	58	1	5.8	103	SMB
SMBJ58CA	SMBJ58CA	64.4	71.2	1	58	1	6.4	93.6	SMB
SMBJ60C	SMBJ60C	66.7	81.5	1	60	1	5.6	107	SMB
SMBJ60CA	SMBJ60CA	66.7	73.7	1	60	1	6.2	9.8	SMB
SMBJ64C	SMBJ64C	71.1	86.9	1	64	1	5.3	114	SMB
SMBJ64CA	SMBJ64CA	71.1	78.6	1	64	1	5.8	103	SMB
SMBJ70C	SMBJ70C	77.8	95.1	1	70	1	4.8	125	SMB
SMBJ70CA	SMBJ70CA	77.8	86	1	70	1	5.3	113	SMB
SMBJ75C	SMBJ75C	83.3	102	1	75	1	4.5	134	SMB
SMBJ75CA	SMBJ75CA	83.3	92.1	1	75	1	4.9	121	SMB
SMBJ78C	SMBJ78C	86.7	106	1	78	1	4.3	139	SMB
SMBJ78CA	SMBJ78CA	86.7	95.8	1	78	1	4.7	126	SMB
SMBJ85C	SMBJ85C	94.4	115	1	85	1	3.9	151	SMB
SMBJ85CA	SMBJ85CA	94.4	104	1	85	1	4.4	137	SMB
SMBJ90C	SMBJ90C	100	122	1	90	1	3.8	160	SMB
SMBJ90CA	SMBJ90CA	100	111	1	90	1	4.1	146	SMB
SMBJ100C	SMBJ100C	111	136	1	100	1	3.4	179	SMB
SMBJ100CA	SMBJ100CA	111	123	1	100	1	3.7	162	SMB
SMBJ110C	SMBJ110C	122	149	1	110	1	3	196	SMB
SMBJ110CA	SMBJ110CA	122	135	1	110	1	3.4	177	SMB
SMBJ120C	SMBJ120C	133	163	1	120	1	2.8	214	SMB
SMBJ120CA	SMBJ120CA	133	147	1	120	1	3.1	193	SMB
SMBJ130C	SMBJ130C	144	176	1	130	1	2.6	231	SMB
SMBJ130CA	SMBJ130CA	144	159	1	130	1	2.9	209	SMB
SMBJ150C	SMBJ150C	167	204	1	150	1	2.2	268	SMB
SMBJ150CA	SMBJ150CA	167	185	1	150	1	2.5	243	SMB
SMBJ160C	SMBJ160C	178	218	1	160	1	2.1	287	SMB
SMBJ160A	SMBJ160CA	178	197	1	160	1	2.3	259	SMB
SMBJ170	SMBJ170C	189	231	1	170	1	2	304	SMB
SMBJ170A	SMBJ170CA	189	209	1	170	1	2.2	275	SMB
SMBJ188	SMBJ188C	209	255	1	188	1	1.7	344	SMB
SMBJ188A	SMBJ188CA	209	231	1	188	1	2	328	SMB
SMBJ130	SMBJ130C	144	176	1	130	1	2.6	231	SMB
SMBJ130A	SMBJ130CA	144	159	1	130	1	2.9	209	SMB
SMBJ150	SMBJ150C	167	204	1	150	1	2.2	268	SMB
SMBJ150A	SMBJ150CA	167	185	1	150	1	2.5	243	SMB
SMBJ160	SMBJ160C	178	218	1	160	1	2.1	287	SMB
SMBJ160A	SMBJ160CA	178	197	1	160	1	2.3	259	SMB
SMBJ170	SMBJ170C	189	231	1	170	1	2	304	SMB
SMBJ170A	SMBJ170CA	189	209	1	170	1	2.2	275	SMB

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Part Number		Breakdown Voltage			Working Peak Reverse Voltage VRWM(V)	Maximin Reverse Leakage IR@VRWM (uA)	Maximum Reverse Surge Current Ipp (A)	Maximum Clamping Voltage Vc @Ipp (V)	Package
		V(BR) @IT							
Uni	Bi	Min(V)	Max(V)	IT(mA)					
600W FOR SURFACE MOUNT									
SMBJ188C	SMBJ188	209	255	1	188	1	1.7	344	SMB
SMBJ188CA	SMBJ188A	209	231	1	188	1	2	328	SMB

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Part Number		Breakdown Voltage			Working Peak Reverse Voltage VRWM(V)	Maximin Reverse Leakage IR@VRWM (uA)	Maximum Reverse Surge Current Ipp (A)	Maximum Clamping Voltage Vc @Ipp (V)	Package
		V(BR) @IT							
Uni	Bi	Min(V)	Max(V)	IT(mA)					
1500W FOR AXIAL LEAD									
1.5KE6.8	1.5KE6.8C	6.12	7.48	10	5.5	1000	38	10.8	DO-201
1.5KE6.8A	1.5KE6.8CA	6.45	7.14	10	5.8	1000	40	10.5	DO-201
1.5KE7.5	1.5KE7.5C	6.75	8.25	10	6.05	500	36	11.7	DO-201
1.5KE7.5A	1.5KE7.5CA	7.13	7.88	10	6.4	500	37	11.3	DO-201
1.5KE8.2	1.5KE8.2C	7.38	9.02	10	6.63	200	33	12.5	DO-201
1.5KE8.2A	1.5KE8.2CA	7.79	8.61	10	7.02	200	35	12.1	DO-201
1.5KE9.1	1.5KE9.1C	8.19	10	1	7.37	50	30	13.8	DO-201
1.5KE9.1A	1.5KE9.1CA	8.65	9.55	1	7.78	50	31	13.4	DO-201
1.5KE10	1.5KE10C	9	11	1	8.1	10	28	15	DO-201
1.5KE10A	1.5KE10CA	9.5	10.5	1	8.55	10	29	14.5	DO-201
1.5KE11	1.5KE11C	9.9	12.1	1	8.92	5	26	16.2	DO-201
1.5KE11A	1.5KE11CA	10.5	11.6	1	9.4	5	27	15.6	DO-201
1.5KE12	1.5KE12C	10.8	13.2	1	9.72	5	24	17.3	DO-201
1.5KE12A	1.5KE12CA	11.4	12.6	1	10.2	5	25	16.7	DO-201
1.5KE13	1.5KE13C	11.7	14.3	1	10.5	5	22	19	DO-201
1.5KE13A	1.5KE13CA	12.4	13.7	1	11.1	5	23	18.2	DO-201
1.5KE15	1.5KE15C	13.5	16.5	1	12.1	5	19	22	DO-201
1.5KE15A	1.5KE15CA	14.3	15.8	1	12.8	5	20	21.2	DO-201
1.5KE16	1.5KE16C	14.4	17.6	1	12.9	5	18	23.5	DO-201
1.5KE16A	1.5KE16CA	15.2	16.8	1	13.6	5	19	22.5	DO-201
1.5KE17	1.5KE17C	15.3	18.7	1	13.7	5	17	25	DO-201
1.5KE17A	1.5KE17CA	16.2	17.9	1	14.5	5	18	24	DO-201
1.5KE18	1.5KE18C	16.2	19.8	1	14.5	5	16	26.5	DO-201
1.5KE18A	1.5KE18CA	17.1	18.9	1	15.3	5	17	25.5	DO-201
1.5KE20	1.5KE20C	18	22	1	16.2	5	14	29.1	DO-201
1.5KE20A	1.5KE20CA	19	21	1	17.1	5	15	27.7	DO-201
1.5KE22	1.5KE22C	19.8	24.2	1	17.8	5	13	31.9	DO-201
1.5KE22A	1.5KE22CA	20.9	23.1	1	18.8	5	14	30.6	DO-201
1.5KE24	1.5KE24C	21.6	26.4	1	19.4	5	12	34.7	DO-201
1.5KE24A	1.5KE24CA	22.8	25.2	1	20.5	5	13	33.2	DO-201
1.5KE27	1.5KE27C	24.3	29.7	1	21.8	5	11	39.1	DO-201
1.5KE27A	1.5KE27CA	25.7	28.4	1	23.1	5	11.2	37.5	DO-201
1.5KE30	1.5KE30C	27	33	1	24.3	5	10	43.5	DO-201
1.5KE30A	1.5KE30CA	28.5	31.5	1	25.6	5	10	41.4	DO-201
1.5KE33	1.5KE33C	29.7	36.6	1	26.8	5	9	47.7	DO-201
1.5KE33A	1.5KE33CA	31.4	34.7	1	28.2	5	9	45.7	DO-201
1.5KE36	1.5KE36C	32.4	39.6	1	29.1	5	8	52	DO-201
1.5KE36A	1.5KE36CA	34.2	37.8	1	30.8	5	8.4	49.9	DO-201
1.5KE39	1.5KE39C	35.1	42.9	1	31.6	5	7.4	56.4	DO-201
1.5KE39A	1.5KE39CA	37.1	41	1	33.3	5	7.8	53.9	DO-201
1.5KE43	1.5KE43C	38.7	47.3	1	34.8	5	6.8	61.9	DO-201
1.5KE43A	1.5KE43CA	40.9	45.2	1	36.8	5	7.1	59.3	DO-201

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Part Number		Breakdown Voltage			Working Peak Reverse Voltage VRWM(V)	Maximin Reverse Leakage IR@VRWM (uA)	Maximum Reverse Surge Current Ipp (A)	Maximum Clamping Voltage Vc @Ipp (V)	Package
		V(BR) @IT							
Uni	Bi	Min(V)	Max(V)	IT(mA)					
1500W FOR AXIAL LEAD									
1.5KE47	1.5KE47C	42.3	51.7	1	38.1	5	6.2	67.8	DO-201
1.5KE47A	1.5KE47CA	44.7	49.4	1	40.2	5	6.5	64.8	DO-201
1.5KE51	1.5KE51C	45.9	56.1	1	41.3	5	5.7	73.5	DO-201
1.5KE51A	1.5KE51CA	48.5	53.6	1	43.6	5	6	70.1	DO-201
1.5KE56	1.5KE56C	50.4	61.6	1	45.4	5	5.2	80.5	DO-201
1.5KE56A	1.5KE56CA	53.2	58.8	1	47.8	5	5.5	77	DO-201
1.5KE62	1.5KE62C	55.8	68.2	1	50.2	5	4.7	89	DO-201
1.5KE62A	1.5KE62CA	58.9	65.1	1	53	5	5	85	DO-201
1.5KE68	1.5KE68C	61.2	74.8	1	55.1	5	4.3	98	DO-201
1.5KE68A	1.5KE68CA	64.6	71.4	1	58.1	5	4.6	92	DO-201
1.5KE75	1.5KE75C	67.5	82.5	1	60.7	5	3.9	108	DO-201
1.5KE75A	1.5KE75CA	71.3	78.8	1	64.1	5	4.1	103	DO-201
1.5KE82	1.5KE82C	73.8	90.2	1	66.4	5	3.6	118	DO-201
1.5KE82A	1.5KE82CA	77.9	86.1	1	70.1	5	3.7	113	DO-201
1.5KE91	1.5KE91C	81.9	100	1	73.7	5	3.2	131	DO-201
1.5KE91A	1.5KE91CA	86.5	95.5	1	77.8	5	3.4	125	DO-201
1.5KE100	1.5KE100C	90	110	1	81	5	2.9	144	DO-201
1.5KE100A	1.5KE100CA	95	105	1	85.5	5	3.1	137	DO-201
1.5KE110	1.5KE110C	99	121	1	89.2	5	2.7	158	DO-201
1.5KE110A	1.5KE110CA	105	116	1	91	5	2.8	152	DO-201
1.5KE120	1.5KE120C	108	132	1	97.2	5	2.4	173	DO-201
1.5KE120A	1.5KE120CA	114	126	1	102	5	2.5	165	DO-201
1.5KE130	1.5KE130C	117	143	1	105	5	2.2	187	DO-201
1.5KE130A	1.5KE130CA	17124	137	1	111	5	2.3	179	DO-201
1.5KE150	1.5KE150C	135	165	1	121	5	2	215	DO-201
1.5KE150A	1.5KE150CA	143	158	1	128	5	2	207	DO-201
1.5KE160	1.5KE160C	144	176	1	130	5	1.8	230	DO-201
1.5KE160A	1.5KE160CA	152	168	1	136	5	1.9	219	DO-201
1.5KE170	1.5KE170C	153	187	1	138	5	1.7	244	DO-201
1.5KE170A	1.5KE170CA	162	179	1	145	5	1.8	234	DO-201
1.5KE180	1.5KE180C	162	198	1	146	5	1.6	258	DO-201
1.5KE180A	1.5KE180CA	171	189	1	154	5	1.7	246	DO-201
1.5KE200	1.5KE200C	180	220	1	162	5	1.5	287	DO-201
1.5KE200A	1.5KE200CA	190	210	1	171	5	1.53	274	DO-201
1.5KE220	1.5KE220C	198	242	1	175	5	1.16	344	DO-201
1.5KE220A	1.5KE220CA	209	231	1	185	5	1.22	328	DO-201
1.5KE250	1.5KE250C	225	275	1	202	5	1.11	360	DO-201
1.5KE250A	1.5KE250CA	237	263	1	214	5	1.16	344	DO-201
1.5KE300	1.5KE300C	270	330	1	243	5	0.93	430	DO-201
1.5KE300A	1.5KE300CA	285	315	1	256	5	0.97	414	DO-201
1.5KE350	1.5KE350C	315	385	1	284	5	0.79	504	DO-201
1.5KE350A	1.5KE350CA	332	368	1	300	5	0.83	482	DO-201

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Part Number		Breakdown Voltage			Working Peak Reverse Voltage VRWM(V)	Maximin Reverse Leakage IR@VRWM (uA)	Maximum Reverse Surge Current Ipp (A)	Maximum Clamping Voltage Vc @Ipp (V)	Package
		V(BR) @IT							
Uni	Bi	Min(V)	Max(V)	IT(mA)					
1500W FOR AXIAL LEAD									
1.5KE400	1.5KE400C	360	440	1	324	5	0.7	574	DO-201
1.5KE400A	1.5KE400CA	380	420	1	342	5	0.73	548	DO-201
1.5KE440	1.5KE440C	396	484	1	356	5	0.95	631	DO-201
1.5KE440A	1.5KE440CA	418	462	1	376	5	1	602	DO-201

TVS/ESD/EMI Transient Voltage Supprssor

Part Number		Breakdown Voltage			Working Peak Reverse Voltage VRWM(V)	Maximin Reverse Leakage IR@VRWM (uA)	Maximum Reverse Surge Current Ipp (A)	Maximum Clamping Voltage Vc @Ipp (V)	Package
		V(BR) @IT							
Uni	Bi	Min(V)	Max(V)	IT(mA)					
1500W FOR SURFACE MOUNT									
1SMC5.0A	1SMC5.0CA	6.4	7.07	10	5	1000	163	9.2	SMC
1SMC6.0A	1SMC6.0CA	66.7	7.37	10	6	1000	145.6	10.3	SMC
1SMC6.5A	1SMC6.5CA	7.22	7.98	10	6.5	500	133.9	11.2	SMC
1SMC7.0A	1SMC7.0CA	7.78	8.6	10	7	200	125	12	SMC
1SMC7.5A	1SMC7.5CA	8.33	9.21	1	7.5	100	116.3	12.9	SMC
1SMC8.0A	1SMC8.0CA	8.89	9.83	1	8	50	110.3	13.6	SMC
1SMC8.5A	1SMC8.5CA	9.44	10.4	1	8.5	20	104.2	14.4	SMC
1SMC9.0A	1SMC9.0CA	10	11.1	1	9	10	97.4	15.4	SMC
1SMC10A	1SMC10CA	11.1	12.3	1	10	5	88.2	17	SMC
1SMC11A	1SMC11CA	12.2	13.5	1	11	5	82.4	18.2	SMC
1SMC12A	1SMC12CA	13.3	14.7	1	12	5	75.4	19.9	SMC
1SMC13A	1SMC13CA	14.4	15.9	1	13	5	69.8	21.5	SMC
1SMC14A	1SMC14CA	15.6	17.2	1	14	5	64.7	23.2	SMC
1SMC15A	1SMC15CA	16.7	18.5	1	15	5	61.5	24.4	SMC
1SMC16A	1SMC16CA	17.8	19.7	1	16	5	57.7	26	SMC
1SMC17A	1SMC17CA	18.9	20.9	1	17	5	54.3	27.6	SMC
1SMC18A	1SMC18CA	20	22.1	1	18	5	51.4	29.2	SMC
1SMC20A	1SMC20CA	22.2	24.5	1	20	5	46.3	32.4	SMC
1SMC22A	1SMC22CA	24.4	26.9	1	22	5	42.3	35.5	SMC
1SMC24A	1SMC24CA	26.7	29.5	1	24	5	38.6	38.9	SMC
1SMC26A	1SMC26CA	28.9	31.9	1	26	5	35.6	42.1	SMC
1SMC28A	1SMC28CA	31.1	34.4	1	28	5	33	45.4	SMC
1SMC30A	1SMC30CA	33.3	36.8	1	30	5	31	48.4	SMC
1SMC33A	1SMC33CA	36.7	40.6	1	33	5	28.1	53.3	SMC
1SMC36A	1SMC36CA	40	44.2	1	36	5	25.8	58.1	SMC
1SMC40A	1SMC40CA	44.4	49.1	1	40	5	23.3	64.5	SMC
1SMC43A	1SMC43CA	47.8	52.8	1	43	5	21.6	69.4	SMC
1SMC45A	1SMC45CA	50	55.3	1	45	5	20.6	72.7	SMC
1SMC48A	1SMC48CA	53.3	58.9	1	48	5	19.4	77.4	SMC
1SMC51A	1SMC51CA	56.7	62.7	1	51	5	18.2	82.4	SMC
1SMC54A	1SMC54CA	60	66.3	1	54	5	17.2	87.1	SMC
1SMC58A	1SMC58CA	64.4	71.2	1	58	5	16	93.6	SMC
1SMC60A	1SMC60CA	66.7	73.7	1	60	5	15.5	96	SMC
1SMC64A	1SMC64CA	71.1	78.6	1	64	5	14.6	103	SMC
1SMC70A	1SMC70CA	77.8	86	1	70	5	13.3	113	SMC
1SMC75A	1SMC75CA	83.3	92.1	1	75	5	12.4	121	SMC
1SMC78A	1SMC78CA	86.7	95.8	1	78	5	11.9	126	SMC
1SMC85A	1SMC85CA	94.4	104	1	85	5	10.9	137	SMC
1SMC90A	1SMC90CA	100	111	1	90	5	10.3	146	SMC
1SMC100A	1SMC100CA	111	123	1	100	5	9.3	162	SMC
1SMC110A	1SMC110CA	122	135	1	110	5	8.5	177	SMC
1SMC120A	1SMC120CA	133	147	1	120	5	7.8	193	SMC

TVS/ESD/EMI Transient Voltage Supprssor

Part Number		Breakdown Voltage			Working Peak Reverse Voltage VRWM(V)	Maximin Reverse Leakage IR@VRWM (uA)	Maximum Reverse Surge Current Ipp (A)	Maximum Clamping Voltage Vc @Ipp (V)	Package
		V(BR) @IT							
Uni	Bi	Min(V)	Max(V)	IT(mA)					
1500W FOR SURFACE MOUNT									
1SMC130A	1SMC130CA	144	159	1	130	5	7.2	209	SMC
1SMC150A	1SMC150CA	167	185	1	150	5	6.2	243	SMC
1SMC160A	1SMC160CA	178	197	1	160	5	5.8	259	SMC
1SMC170A	1SMC170CA	189	209	1	170	5	5.5	275	SMC
1SMC188A	1SMC188CA	209	231	1	188	5	4.6	328	SMC
SMCJ200A	SMCJ200CA	224	247	1	200	1	4.6	324	SMC
SMCJ220A	SMCJ220CA	246	272	1	220	1	4.2	356	SMC
SMCJ250A	SMCJ250CA	279	309	1	250	1	3.7	405	SMC
SMCJ300A	SMCJ300CA	335	371	1	300	1	3.1	486	SMC
SMCJ350A	SMCJ350CA	391	432	1	350	1	2.6	567	SMC
SMCJ400A	SMCJ400CA	447	494	1	400	1	2.3	648	SMC
SMCJ440A	SMCJ440CA	492	543	1	440	1	2.1	713	SMC

TVS/ESD/EMI Transient Voltage Supprssor

Part Number		Breakdown Voltage			Working Peak Reverse Voltage VRWM(V)	Maximin Reverse Leakage IR@VRWM (uA)	Maximum Reverse Surge Current Ipp (A)	Maximum Clamping Voltage Vc @Ipp (V)	Package
		V(BR) @IT							
Uni	Bi	Min(V)	Max(V)	IT(mA)					
3000W FOR SURFACE MOUNT									
3.0SMCJ5.0	-	6.4	7.55	10	5	1000	312.5	9.6	SMC
3.0SMCJ5.0A	-	6.4	7.25	10	5	1000	326	9.2	SMC
3.0SMCJ6.0	-	6.67	8.45	10	6	1000	263.2	11.4	SMC
3.0SMCJ6.0A	-	6.67	7.67	10	6	1000	291.3	10.3	SMC
3.0SMCJ6.5	-	7.22	9.14	10	6.5	500	243.9	12.3	SMC
3.0SMCJ6.5A	-	7.22	8.3	10	6.5	500	267.9	11.2	SMC
3.0SMCJ7.0	-	7.78	9.86	10	7	200	225.6	13.3	SMC
3.0SMCJ7.0A	-	7.78	8.95	10	7	200	250	12	SMC
3.0SMCJ7.5	-	8.33	10.67	1	7.5	100	209.8	14.3	SMC
3.0SMCJ7.5A	-	8.33	9.58	1	7.5	100	232.6	12.9	SMC
3.0SMCJ8.0	-	8.89	11.3	1	8	50	200	15	SMC
3.0SMCJ8.0A	-	8.89	10.23	1	8	50	220.6	13.6	SMC
3.0SMCJ8.5	-	9.44	11.92	1	8.5	25	188.8	15.9	SMC
3.0SMCJ8.5A	-	9.44	10.82	1	8.5	25	208.4	14.4	SMC
3.0SMCJ9.0	-	10	12.6	1	9	10	177.4	16.9	SMC
3.0SMCJ9.0A	-	10	11.5	1	9	10	194.8	15.4	SMC
3.0SMCJ10	-	11.1	14.1	1	10	5	159.6	18.8	SMC
3.0SMCJ10A	-	11.1	12.8	1	10	5	176.4	17	SMC
3.0SMCJ11	-	12.2	15.4	1	11	5	149.2	20.1	SMC
3.0SMCJ11A	-	12.2	14	1	11	5	184.8	18.2	SMC
3.0SMCJ12	-	13.3	16.9	1	12	5	136.4	22	SMC
3.0SMCJ12A	-	13.3	15.3	1	12	5	150.6	19.9	SMC
3.0SMCJ13	-	14.4	18.2	1	13	5	126	23.8	SMC
3.0SMCJ13A	-	14.4	16.5	1	13	5	139.4	21.5	SMC
3.0SMCJ14	-	15.6	19.8	1	14	5	116.2	25.8	SMC
3.0SMCJ14A	-	15.6	17.9	1	14	5	129.4	23.2	SMC
3.0SMCJ15	-	16.7	21.1	1	15	5	111.6	26.9	SMC
3.0SMCJ15A	-	16.7	19.2	1	15	5	123	24.4	SMC
3.0SMCJ16	-	17.8	22.6	1	16	5	104.2	28.8	SMC
3.0SMCJ16A	-	17.8	20.5	1	16	5	115.4	26	SMC
3.0SMCJ17	-	18.9	23.9	1	17	5	98.4	30.5	SMC
3.0SMCJ17A	-	18.9	21.7	1	17	5	106.6	27.6	SMC
3.0SMCJ18	-	20	25.3	1	18	5	93.2	32.2	SMC
3.0SMCJ18A	-	20	23.3	1	18	5	102.8	29.2	SMC
3.0SMCJ20	-	22.2	28.1	1	20	5	83.8	35.8	SMC
3.0SMCJ20A	-	22.2	25.5	1	20	5	92.6	32.4	SMC
3.0SMCJ22	-	24.4	30.9	1	22	5	76.2	39.4	SMC
3.0SMCJ22A	-	24.4	28	1	22	5	84.4	35.5	SMC
3.0SMCJ24	-	26.7	33.8	1	24	5	69.8	43	SMC
3.0SMCJ24A	-	26.7	30.7	1	24	5	77.2	38.9	SMC
3.0SMCJ26	-	28.9	36.6	1	26	5	64.4	46.6	SMC
3.0SMCJ26A	-	28.9	33.2	1	26	5	71.2	42.1	SMC

TVS/ESD/EMI Transient Voltage Supprssor

Part Number		Breakdown Voltage			Working Peak Reverse Voltage VRWM(V)	Maximin Reverse Leakage IR@VRWM (uA)	Maximum Reverse Surge Current Ipp (A)	Maximum Clamping Voltage Vc @Ipp (V)	Package
		V(BR) @IT	Min(V)	Max(V)					
Uni	Bi	Min(V)	Max(V)	IT(mA)	Voltage VRWM(V)	IR@VRWM (uA)	Current Ipp (A)	Vc @Ipp (V)	
3000W FOR SURFACE MOUNT									
3.0SMCJ28	-	31.1	39.4	1	28	5	60	50	SMC
3.0SMCJ28A	-	31.1	35.8	1	28	5	66	45.4	SMC
3.0SMCJ30	-	33.3	42.2	1	30	5	56	53.5	SMC
3.0SMCJ30A	-	33.3	38.3	1	30	5	62	48.4	SMC
3.0SMCJ33	-	36.7	46.5	1	33	5	50.4	59	SMC
3.0SMCJ33A	-	36.7	42.2	1	33	5	56.2	53.3	SMC
3.0SMCJ36	-	40	50.7	1	36	5	46.6	64.3	SMC
3.0SMCJ36A	-	40	46	1	36	5	51.6	58.1	SMC
3.0SMCJ40	-	44.4	56.3	1	40	5	42	71.4	SMC
3.0SMCJ40A	-	44.4	51.1	1	40	5	46.4	64.5	SMC
3.0SMCJ43	-	47.8	60.5	1	43	5	39.2	76.7	SMC
3.0SMCJ43A	-	47.8	54.9	1	43	5	43.2	69.4	SMC
3.0SMCJ45	-	50	63.3	1	45	5	37.4	80.3	SMC
3.0SMCJ45A	-	50	57.5	1	45	5	41.2	72.7	SMC
3.0SMCJ48	-	53.3	67.5	1	48	5	35	85.5	SMC
3.0SMCJ48A	-	53.3	61.3	1	48	5	38.8	77.4	SMC
3.0SMCJ51	-	56.7	71.8	1	51	5	37	91.1	SMC
3.0SMCJ51A	-	56.7	65.2	1	51	5	36.4	82.4	SMC
3.0SMCJ54	-	60	76	1	54	5	31.2	96.3	SMC
3.0SMCJ54A	-	60	69	1	54	5	34.4	87.1	SMC
3.0SMCJ58	-	64.4	81.6	1	58	5	39.2	103	SMC
3.0SMCJ58A	-	64.4	74.1	1	58	5	32	93.6	SMC
3.0SMCJ60	-	66.7	84.5	1	60	5	28	107	SMC
3.0SMCJ60A	-	66.7	76.7	1	60	5	31	96	SMC
3.0SMCJ64	-	71.1	90.1	1	64	5	26.4	114	SMC
3.0SMCJ64A	-	71.1	81.8	1	64	5	29.2	103	SMC
3.0SMCJ70	-	77.8	98.6	1	70	5	24	125	SMC
3.0SMCJ70A	-	77.8	89.5	1	70	5	26.6	113	SMC
3.0SMCJ75	-	83.3	105.7	1	75	5	22.4	134	SMC
3.0SMCJ75A	-	83.3	95.8	1	75	5	24.8	121	SMC
3.0SMCJ78	-	86.7	109.8	1	78	5	21.6	139	SMC
3.0SMCJ78A	-	86.7	99.7	1	78	5	22.8	126	SMC
3.0SMCJ85	-	94.4	119.2	1	85	5	19.8	151	SMC
3.0SMCJ85A	-	94.4	108.2	1	85	5	20.8	137	SMC
3.0SMCJ90	-	100	126.5	1	90	5	18.8	160	SMC
3.0SMCJ90A	-	100	115.5	1	90	5	20.6	146	SMC
3.0SMCJ100	-	111	141	1	100	5	16.6	179	SMC
3.0SMCJ100A	-	111	128	1	100	5	18.6	162	SMC
3.0SMCJ110	-	122	154.5	1	110	5	15.4	196	SMC
3.0SMCJ110A	-	122	140.5	1	110	5	16.8	177	SMC
3.0SMCJ120	-	133	169	1	120	5	14	214	SMC
3.0SMCJ120A	-	133	153	1	120	5	15.6	193	SMC

TVS/ESD/EMI Transient Voltage Supprssor

Part Number		Breakdown Voltage			Working Peak Reverse Voltage VRWM(V)	Maximin Reverse Leakage IR@VRWM (uA)	Maximum Reverse Surge Current Ipp (A)	Maximum Clamping Voltage Vc @Ipp (V)	Package
		V(BR) @IT							
Uni	Bi	Min(V)	Max(V)	IT(mA)					
3000W FOR SURFACE MOUNT									
3.0SMCJ130	-	144	182.5	1	130	5	13	231	SMC
3.0SMCJ130A	-	144	165.5	1	130	5	14.4	209	SMC
3.0SMCJ150	-	167	211.5	1	150	5	11.2	268	SMC
3.0SMCJ150A	-	167	192.5	1	150	5	12.4	243	SMC
3.0SMCJ160	-	178	226	1	160	5	10.4	287	SMC
3.0SMCJ160A	-	178	205	1	160	5	11.6	259	SMC
3.0SMCJ170	-	189	239.5	1	170	5	9.8	304	SMC
3.0SMCJ170A	-	189	217.5	1	170	5	11	275	SMC
3.0SMCJ180	-	198	253.8	1	180	5	9.3	322	SMC
3.0SMCJ180A	-	198	230.4	1	180	5	10.3	292	SMC
3.0SMCJ190	-	209	267.9	1	190	5	8.8	340	SMC
3.0SMCJ190A	-	209	243.2	1	190	5	9.7	308	SMC
3.0SMCJ200	-	220	282	1	200	5	8.4	358	SMC
3.0SMCJ200A	-	220	256	1	200	5	9.3	324	SMC
3.0SMCJ210	-	231	296.1	1	210	5	7.8	376	SMC
3.0SMCJ210A	-	231	268.8	1	210	5	8.8	340	SMC
3.0SMCJ220	-	242	310.2	1	220	5	7.6	394	SMC
3.0SMCJ220A	-	242	281.6	1	220	5	8.4	356	SMC

TVS/ESD/EMI Transient Voltage Supprssor

Part Number		Breakdown Voltage			Working Peak Reverse Voltage VRWM(V)	Maximin Reverse Leakage IR@VRWM (uA)	Maximum Reverse Surge Current Ipp (A)	Maximum Clamping Voltage Vc @Ipp (V)	Package
		V(BR) @IT							
Uni	Bi	Min(V)	Max(V)	IT(mA)					
5000W FOR AXIAL LEAD									
5KP5.0	5KP5.0C	6.4	7.3	50	5	5000	520	9.6	R6
5KP5.0A	5KP5.0CA	6.4	7	50	5	5000	543	9.2	R6
5KP6.0	5KP6.0C	6.67	8.15	50	6	5000	439	11.4	R6
5KP6.0A	5KP6.0CA	6.67	7.37	50	6	5000	485	10.3	R6
5KP6.5	5KP6.5C	7.22	8.82	50	6.5	2000	407	12.3	R6
5KP6.5A	5KP6.5CA	7.22	7.98	50	6.5	2000	447	11.2	R6
5KP7.0	5KP7.0C	7.78	9.51	50	7	1000	378	13.3	R6
5KP7.0A	5KP7.0CA	7.78	8.6	50	7	1000	417	12	R6
5KP7.5	5KP7.5C	8.33	10.2	5	7.5	250	350	14.3	R6
5KP7.5A	5KP7.5CA	8.33	9.21	5	7.5	250	388	12.9	R6
5KP8.0	5KP8.0C	8.89	10.9	5	8	150	333	15	R6
5KP8.0A	5KP8.0CA	8.89	9.83	5	8	150	367	13.6	R6
5KP8.5	5KP8.5C	9.44	11.5	5	8.5	50	314	15.9	R6
5KP8.5A	5KP8.5CA	9.44	10.4	5	8.5	50	347	14.4	R6
5KP9.0	5KP9.0C	10	12.2	5	9	20	295	16.9	R6
5KP9.0A	5KP9.0CA	10	11.1	5	9	20	325	15.4	R6
5KP10	5KP10C	11.1	13.6	5	10	15	266	18.8	R6
5KP10A	5KP10CA	11.1	12.3	5	10	15	294	17	R6
5KP11	5KP11C	12.2	14.9	5	11	10	249	20.1	R6
5KP11A	5KP11CA	12.2	13.5	5	11	10	274	18.2	R6
5KP12	5KP12C	13.3	16.3	5	12	10	227	22	R6
5KP12A	5KP12CA	13.3	14.7	5	12	10	251	19.9	R6
5KP13	5KP13C	14.4	17.6	5	13	10	210	23.8	R6
5KP13A	5KP13CA	14.4	15.9	5	13	10	232	21.5	R6
5KP14	5KP14C	15.6	19.1	5	14	10	194	25.8	R6
5KP14A	5KP14CA	15.6	17.2	5	14	10	215	23.2	R6
5KP15	5KP15C	16.7	20.4	5	15	10	188	26.9	R6
5KP15A	5KP15CA	16.7	18.5	5	15	10	206	24.4	R6
5KP16	5KP16C	17.8	21.8	5	16	10	176	28.8	R6
5KP16A	5KP16CA	17.8	19.7	5	16	10	192	26	R6
5KP17	5KP17C	18.9	23.1	5	17	10	164	30.5	R6
5KP17A	5KP17CA	18.9	20.9	5	17	10	181	27.6	R6
5KP18	5KP18C	20	24.4	5	18	10	155	32.2	R6
5KP18A	5KP18CA	20	22.1	5	18	10	172	29.2	R6
5KP20	5KP20C	22.2	27.1	5	20	10	139	35.8	R6
5KP20A	5KP20CA	22.2	24.5	5	20	10	154	32.4	R6
5KP22	5KP22C	24.4	29.8	5	22	10	127	39.4	R6
5KP22A	5KP22CA	24.4	26.9	5	22	10	141	35.5	R6
5KP24	5KP24C	26.7	32.6	5	24	10	116	43	R6
5KP24A	5KP24CA	26.7	29.5	5	24	10	128	38.9	R6
5KP26	5KP26C	28.9	35.3	5	26	10	107	46.6	R6
5KP26A	5KP26CA	28.9	31.9	5	26	10	119	42.1	R6

TVS/ESD/EMI Transient Voltage Supprssor

Part Number		Breakdown Voltage			Working Peak Reverse Voltage VRWM(V)	Maximin Reverse Leakage IR@VRWM (uA)	Maximum Reverse Surge Current Ipp (A)	Maximum Clamping Voltage Vc @Ipp (V)	Package
		V(BR) @IT							
Uni	Bi	Min(V)	Max(V)	IT(mA)					
5000W FOR AXIAL LEAD									
5KP28	5KP28C	31.1	38	5	28	10	99	50.1	R6
5KP28A	5KP28CA	31.1	34.4	5	28	10	110	45.4	R6
5KP30	5KP30C	33.3	40.7	5	30	10	93	53.5	R6
5KP30A	5KP30CA	33.3	36.8	5	30	10	103	48.4	R6
5KP33	5KP33C	36.7	44.9	5	33	10	85	59	R6
5KP33A	5KP33CA	36.7	40.6	5	33	10	94	53.3	R6
5KP36	5KP36C	40	48.9	5	36	10	78	64.3	R6
5KP36A	5KP36CA	40	44.2	5	36	10	86	58.1	R6
5KP40	5KP40C	44.4	54.3	5	40	10	70	71.4	R6
5KP40A	5KP40CA	44.4	49.1	5	40	10	78	64.5	R6
5KP43	5KP43C	47.8	58.4	5	43	10	65	76.7	R6
5KP43A	5KP43CA	47.8	52.8	5	43	10	72	69.4	R6
5KP45	5KP45C	50	61.1	5	45	10	62	80.3	R6
5KP45A	5KP45CA	50	55.3	5	45	10	69	72.7	R6
5KP48	5KP48C	53.3	65.2	5	48	10	58	85.5	R6
5KP48A	5KP48CA	53.3	58.9	5	48	10	65	77.4	R6
5KP51	5KP51C	56.7	69.3	5	51	10	55	91.1	R6
5KP51A	5KP51CA	56.7	62.7	5	51	10	61	82.4	R6
5KP54	5KP54C	60	73.3	5	54	10	52	96.3	R6
5KP54A	5KP54CA	60	66.3	5	54	10	57	87.1	R6
5KP56	5KP56C	62.2	76.1	5	56	10	50	100	R6
5KP56A	5KP56CA	62.2	68.8	5	56	10	55	91	R6
5KP58	5KP58C	64.4	78.7	5	58	10	49	103	R6
5KP58A	5KP58CA	64.4	71.2	5	58	10	53	94	R6
5KP60	5KP60C	66.7	81.5	5	60	10	47	107	R6
5KP60A	5KP60CA	66.7	73.7	5	60	10	52	97	R6
5KP64	5KP64C	71.1	96.9	5	64	10	44	114	R6
5KP64A	5KP64CA	71.1	78.6	5	64	10	49	103	R6
5KP70	5KP70C	77.6	95.1	5	70	10	40	125	R6
5KP70A	5KP70CA	77.6	86	5	70	10	44	113	R6
5KP75	5KP75C	83.3	102	5	75	10	37	134	R6
5KP75A	5KP75CA	83.3	92.1	5	75	10	41	121	R6
5KP78	5KP78C	86.7	106	5	78	10	36	139	R6
5KP78A	5KP78CA	86.7	95.8	5	78	10	40	126	R6
5KP85	5KP85C	94.4	115	5	85	10	33	151	R6
5KP85A	5KP85CA	94.4	104	5	85	10	36	137	R6
5KP90	5KP90C	100	122	5	90	10	31	160	R6
5KP90A	5KP90CA	100	111	5	90	10	34	146	R6
5KP100	5KP100C	111	136	5	100	10	28	179	R6
5KP100A	5KP100CA	111	123	5	100	10	31	162	R6
5KP110	5KP110C	122	149	5	110	10	26	196	R6
5KP110A	5KP110CA	122	135	5	110	10	28	177	R6

TVS/ESD/EMI Transient Voltage Supprssor

Part Number		Breakdown Voltage			Working Peak Reverse Voltage VRWM(V)	Maximin Reverse Leakage IR@VRWM (uA)	Maximum Reverse Surge Current Ipp (A)	Maximum Clamping Voltage Vc @Ipp (V)	Package
		V(BR) @IT							
Uni	Bi	Min(V)	Max(V)	IT(mA)					
5000W FOR AXIAL LEAD									
5KP120	5KP120C	133	163	5	120	10	24	211	R6
5KP120A	5KP120CA	133	147	5	120	10	26	194	R6
5KP150	5KP150C	167	204	5	150	10	19	263	R6
5KP150A	5KP150CA	167	184	5	160	10	21	242	R6
5KP160	5KP160C	178	217	5	160	10	18	281	R6
5KP160A	5KP160CA	178	196	5	160	10	19	258	R6
5KP170	5KP170C	189	231	5	170	10	17	298	R6
5KP170A	5KP170CA	189	209	5	170	10	18	274	R6
5KP180	5KP180C	200	244	5	180	10	16	316	R6
5KP180A	5KP180CA	200	221	5	180	10	17	290	R6

TVS/ESD/EMI ESD/ EMI Protector

Part Number	Direction	V(BR) Min (V)	C Max (pF)	VRWM Max (V)	IR Max (uA)	Package
EBLC03	Uni	4.0	3	3.3	5	SOD-323
EBLC03C	Bi	4.0	3	3.3	5	SOD-323
EBLC05	Uni	6.0	3	5	5	SOD-323
EBLC05C	Bi	6.0	3	5	5	SOD-323
EBLC08	Uni	8.5	3	8	2	SOD-323
EBLC08C	Bi	8.5	3	8	2	SOD-323
EBLC12	Uni	13.3	3	12	1	SOD-323
EBLC12C	Bi	13.3	3	12	1	SOD-323
EBLC15	Uni	16.7	3	15	1	SOD-323
EBLC15C	Bi	16.7	3	15	1	SOD-323
EBLC24	Uni	26.7	3	24	1	SOD-323
EBLC24C	Bi	26.7	3	24	1	SOD-323
ESD3Z5C	Uni	5.4	25	5	1	SOD-323
ESD3Z12C	Uni	13.3	35	12	1	SOD-323
ESD3Z15C	Uni	16.7	50	15	1	SOD-323
ESD05CL	Bi	6.1	3	5	1	SOD-323
ESDV05CL	Bi	6.1	15	5	25	SOD-323
ESD3Z24V	Uni	24.4	50	24	1	SOD-323
ESMF05	Uni	6.1	35	5	1	SOT-353
ESDA6V1W5	Uni	6.1	35	5	1	SOT-353
ESMF3V3	Uni	5.3	50	3.3	1	SOT-353
ESMF12	Uni	13.3	30	12	1	SOT-353
EL05	Uni	6.0	5	5	20	SOT-23
ESD5L5V	Uni	6.0	0.9	5	1	SOD-523
ESD5V0D5	Uni	6.2	80	5	0.08	SOD-523
ESD5Z5C	Bi	5.6	16	5	1	SOD-523
ESD5Z5CL	Bi	6.1	3	5	1	SOD-523
ESD5Z5V	Uni	6.0	30	5	1	SOD-523
ESD5Z3V3	Uni	5.0	35	3	1	SOD-523
ESD5Z6V	Uni	6.8	30	6	1	SOD-523
ESD5Z7V	Uni	7.5	25	7	1	SOD-523
ESD5Z12V	Uni	13.5	25	12	1	SOD-523
ESRV05-4	Uni	6.0	3.5	5	5	SOT-23
ESDA6V1W6	Uni	6.1	35	5	1	SOT-363
ESD0503	Uni	3.9	3	3.3	5	SOT-363-6
ESD0504	Uni	6.0	3	5	3	SOT-363-6
ESR05L	Uni	6.0	3	5	5	SOT-143
ESR12	Uni	13.3	0.6	12	1	SOT-143
ESD50V12L	Uni	13.5	10	12	1	SOT-143
TS61089	Uni	90	100	90	-	SOP-8
TS61089A	Uni	120	100	120	-	SOP-8
TS61089B	Uni	170	100	170	-	SOP-8
TSP0080SB	Bi	6.0	80	15	2	SMB
TSP2600SB	Bi	220	60	300	2	SMB
TSP3500SB	Bi	320	25	400	5	SMB
TSP4200SB	Bi	390	25	500	5	SMB

**TVS/ESD/EMI
ESD/ EMI Protector**

Part Number	Direction	V(BR) Min (V)	C Max (pF)	VRWM Max (V)	IR Max (uA)	Package
ESDFN05CU	Bi	5.4	0.5	5	1	DFN1006
EBL0501T	Uni	6.0	10	5	0.25	DFN1006
ESDF5V4	Uni	6.0	0.3	5	1	DFN10
ESDFN2105VIL	Bi	6.0	0.5	5	1	DFN0201
ES0542	Bi	6.0	0.3	5	1	DFN0603
ESDFBP05VL	Uni	6.0	0.5	3.3	1	WBFBP-02L
ESDFBP05CL	Bi	6.1	3	5	1	WBFBP-02L
SESDFBP05C	Bi	6.1	10	5	1	WBFBP-02L
SOTY05D	Uni	6.4	10	5	10	DFN1725
SOTY12D	Uni	13.2	10	12	20	DFN1725

Transistors

Transistors

Part Number	Channel Polarity	Continuous IC (A)	V(BR) Min (V)	Hfe Min	hFE Max	FT Min (MHz)	PC (mW)	Package
2SC4617XT1	NPN	0.2	60	120	560	180	150	SOT-523
MMDT2222A	Dual NPN	0.6	75	100	300	300	200	SOT-363
MMDT2907A	Dual PNP	0.6	75	100	300	300	200	SOT-363
BC856AW	PNP	0.1	80	125	250	100	200	SOT-323
BC856BW	PNP	0.1	80	220	475	100	200	SOT-323
BC857AW	PNP	0.1	50	125	250	100	200	SOT-323
BC857BW	PNP	0.1	50	220	475	100	200	SOT-323
BC857CW	PNP	0.1	50	420	800	100	200	SOT-323
BC858BW	PNP	0.1	30	220	475	100	200	SOT-323
BC858CW	PNP	0.1	30	420	800	100	200	SOT-323
2SC2412	NPN	0.2	60	120	560	160	200	SOT-323
BC846A	NPN	0.1	80	125	250	100	225	SOT-23
BC846B	NPN	0.1	80	125	250	100	225	SOT-23
BC847A	NPN	0.1	50	220	475	100	225	SOT-23
BC847B	NPN	0.1	50	220	475	100	225	SOT-23
BC848A	NPN	0.1	30	420	800	100	225	SOT-23
BC848B	NPN	0.1	30	420	800	100	225	SOT-23
BC848C	NPN	0.1	30	420	800	100	225	SOT-23
BC856A	PNP	0.1	80	125	250	100	225	SOT-23
BC856B	PNP	0.1	80	125	250	100	225	SOT-23
BC857A	PNP	0.1	50	220	475	100	225	SOT-23
BC857B	PNP	0.1	50	220	475	100	225	SOT-23
BC858A	PNP	0.1	30	420	800	100	225	SOT-23
BC858B	PNP	0.1	30	420	800	100	225	SOT-23
BC858C	PNP	0.1	30	420	800	100	225	SOT-23
2SC1623	NPN	0.1	50	90	600	250	200	SOT-23
S9014	NPN	0.1	45	200	1000	150	200	SOT-23
2SA1162	PNP	0.2	50	70	400	80	150	SOT-23
MMBT3904	NPN	0.2	40	100	300	300	225	SOT-23
MMBT3906	PNP	0.2	40	100	300	300	225	SOT-23
S9012LT	PNP	0.5	40	70	400	150	300	SOT-23
MMBTA05	NPN	0.5	60	100	-	100	417	SOT-23
MMBTA06	NPN	0.5	80	100	-	100	417	SOT-23
MMBTA55	PNP	0.5	60	100	-	50	417	SOT-23
MMBTA56	PNP	0.5	80	100	-	50	417	SOT-23
BC807-40	PNP	0.5	45	250	600	225	300	SOT-23
BC817-16	PNP	0.5	45	100	250	100	300	SOT-23
BC817-25	PNP	0.5	45	100	400	100	300	SOT-23
BC817-40	PNP	0.5	45	100	600	100	300	SOT-23
MMBT2222A	NPN	0.6	75	75	300	300	300	SOT-23
MMBT2907A	PNP	0.6	75	75	300	300	300	SOT-23
SS8050	NPN	1.5	40	125	400	100	300	SOT-23
2SC4548	NPN	0.2	400	60	200	70	500	SOT-89
A42	NPN	0.5	310	100	300	50	500	SOT-89
A92	PNP	0.5	300	100	300	50	500	SOT-89

Transistors Transistors

Part Number	Channel Polarity	Continuous IC (A)	V(BR) Min (V)	Hfe Min	hFE Max	FT Min (MHz)	PC (mW)	Package
BCX51	PNP	1.0	45	40	250	2000	500	SOT-89
BCX52	PNP	1.0	60	40	250	2000	500	SOT-89
BCX53	PNP	1.0	100	40	250	2000	500	SOT-89
BCX54	NPN	1.0	45	25	250	100	1000	SOT-89
BCX55	NPN	1.0	60	25	250	100	1000	SOT-89
BCX56	NPN	1.0	100	25	250	100	1000	SOT-89
2SD2908	NPN	5.0	50	120	390	150	500	SOT-89
2SB1386	PNP	5.0	50	120	390	150	500	SOT-89
2N5551	NPN	0.6	180	160	400	-	625	TO-92
2SC2562	NPN	5.0	60	70	240	60	1250	TO-252
2SA1012	PNP	5.0	60	70	240	60	1250	TO-252

Transistors

Digital Transistors

Part Number	Polarity	IC (A)	V(BR) CEO	PD (W)	R1 (K Ω)	R2 (K Ω)	Gi (DC Current Gain)	Ft (MHz)	Package
DTA114EE	PNP	50	50	150	10	10	30	250	SOT-523
DTA124EE	PNP	30	50	150	22	22	56	250	SOT-523
DTA143EE	PNP	100	50	150	47	47	20	250	SOT-523
DTA144EE	PNP	30	50	150	4.7	4.7	28	250	SOT-523
DTC144TE	NPN	100	50	150	47	-	-	150	SOT-523
TA114ECA	NPN	50	50	200	10	10	30	250	SOT-23
TA124ECA	NPN	30	50	200	22	22	56	250	SOT-23
TA143ECA	NPN	100	50	200	4.7	4.7	20	250	SOT-23
TA144ECA	NPN	30	50	200	47	47	28	250	SOT-23
DTA113ZCA	NPN	100	50	200	1	1	33	250	SOT-23
DTA114WCA	NPN	100	50	200	10	10	24	250	SOT-23
DTA114YCA	NPN	70	50	200	10	10	68	250	SOT-23
DTA123JCA	NPN	100	50	200	2.2	2.2	80	250	SOT-23
DTA123YCA	NPN	100	50	200	2.2	2.2	33	250	SOT-23
DTA143XCA	NPN	100	50	200	4.7	4.7	30	250	SOT-23
DTA143ZCA	NPN	100	50	200	4.7	4.7	80	250	SOT-23

MOSFETs

HV MOSFETs

Part Number	Channel Polarity	VDSS (V)	VGS (V)	ID Max (A)		PD Max (W)	Rds(on) Max @ VGS = 10 V (Ω)	Package
				Tc=25°C	Tc=100°C			
MSL01N60	N Channel	600	±30	1	0.6	5.2	10.50	SOT-223
MSL03N20	N Channel	200	±30	3	1.9	1.78	0.85	SOT-223
DMS05N60	N Channel	600	±20	0.02	-	0.5	700	SOT-23
MSQ6N40	N Channel	400	±30	5.5	3.5	38	1.00	QFN 5X6
MSQ5N50	N Channel	500	±30	5	3	60	1.40	QFN 5X6
MSQ2N60	N Channel	600	±30	2	1.35	45	0.32	QFN 5X6
MSQ4N60	N Channel	600	±30	4.5	2.8	80	2.50	QFN 5X6
MS3N80	N Channel	800	±30	-	3.0	107	4.80	TO-220
MS4N60	N Channel	600	±30	4.5	2.6	100	2.50	TO-220
MS4N65	N Channel	650	±30	3.6	2.3	100	2.40	TO-220
MS5N50	N Channel	500	±30	4.5	3.0	73	1.50	TO-220
MS5N50-A	N Channel	500	±30	5	3.2	101	1.60	TO-220
MS5N60	N Channel	600	±30	4.5	2.6	33	2.00	TO-220
MS6N40	N Channel	400	±30	5.5	3.5	100	-	TO-220
MS6N80	N Channel	800	±30	6.0	4.2	156	2.30	TO-220
MS6N90	N Channel	900	±30	6.0	4.2	165	2.40	TO-220
MS6N95	N Channel	950	±30	6.0	3.8	56	2.40	TO-220
MS7N60	N Channel	600	±30	7.0	4.4	44	1.08	TO-220
MS7N80	N Channel	800	±30	7.0	4.2	57	2.10	TO-220
MS8N60	N Channel	600	±30	7.5	4.5	147	1.20	TO-220
MS8N50	N Channel	500	±30	8.0	4.8	125	0.85	TO-220
MS9N90	N Channel	900	±30	9.0	6.0	280	1.40	TO-220
MS10N60	N Channel	600	±30	9.5	5.7	50	0.73	TO-220
MS10N65	N Channel	650	±30	9.5	6.0	50	0.85	TO-220
MS10N80	N Channel	800	±30	10.0	6.5	60	2.10	TO-220
MS12N60	N Channel	600	±30	12.0	7.2	225	0.65	TO-220
MS12N65	N Channel	650	±30	12.0	7.4	231	0.75	TO-220
MS13N50	N Channel	500	±30	13.0	8.0	195	4.80	TO-220
MS14N60	N Channel	600	±30	14.0	8.4	60	0.55	TO-220
MS15N50	N Channel	500	±30	15	9	250	0.42	TO-220
MS15N60	N Channel	600	±30	15	9.5	245	0.52	TO-220
MS18N50	N Channel	500	±30	18	10.8	238	0.32	TO-220
MSF2N40	N Channel	400	±30	2	1.8	24	1.50	TO-220F
MSF2N60	N Channel	600	±30	2	1.3	23	4.70	TO-220F
MSF2N70	N Channel	700	±30	1.6	1.0	45	6.00	TO-220F
MSF3N80	N Channel	800	±30	3	1.8	1.7	4.80	TO-220F
MSF4N60	N Channel	600	±30	4.5	2.6	31	2.50	TO-220F
MSF4N60L	N Channel	600	±30	4.5	2.6	31	1.40	TO-220F
MSF4N65	N Channel	650	±30	4	2.3	33	2.50	TO-220F
MSF5N50	N Channel	500	±30	4.5	2.9	38	1.50	TO-220F
MSF5N60	N Channel	600	±30	4.5	2.6	33	2.30	TO-220F
MSF6N40	N Channel	400	±30	5.5	3.5	38	1.00	TO-220F
MSF6N60	N Channel	600	±30	4.5	2.6	33	2.30	TO-220F
MSF6N65	N Channel	650	±30	6	3.6	54	1.50	TO-220F
MSF6N70	N Channel	700	±30	6	3.5	48	1.80	TO-220F

MOSFETs

HV MOSFETs

Part Number	Channel Polarity	VDSS (V)	VGS (V)	ID Max (A)		PD Max (W)	Rds(on) Max @ VGS = 10 V (Ω)	Package
				Tc=25°C	Tc=100°C			
MSF6N90	N Channel	900	±30	6	3.8	56	2.40	TO-220F
MSF7N60	N Channel	600	±30	7	4.4	31	1.20	TO-220F
MSF7N65	N Channel	600	±30	7	4.4	31	1.20	TO-220F
MSF7N80	N Channel	800	±30	7	4.2	56	1.90	TO-220F
MSF8N60	N Channel	600	±30	7.4	4.5	48	1.20	TO-220F
MSF8N50	N Channel	500	±30	8	4.8	44	0.85	TO-220F
MSF8N80	N Channel	800	±30	8	5	59	1.60	TO-220F
MSF9N70	N Channel	700	±30	9	5.4	35	1.00	TO-220F
MSF9N90	N Channel	900	±30	9	6	280	1.40	TO-220F
MSF10N60	N Channel	600	±30	9.5	5.7	50	2.40	TO-220F
MSF10N65	N Channel	650	±30	10	6	52	2.40	TO-220F
MSF10N80	N Channel	800	±30	10	6.5	60	1.10	TO-220F
MSF10N80A	N Channel	800	±30	10	6	60	1.40	TO-220F
MSF10N40	N Channel	400	±30	10.5	6.6	45.5	2.40	TO-220F
MSF11N70	N Channel	700	±30	11	6.5	35	1.20	TO-220F
MSF12N60	N Channel	600	±30	12	7.5	54	0.65	TO-220F
MSF12N65	N Channel	650	±30	12	7.4	54	0.85	TO-220F
MSF13N50	N Channel	500	±30	13	8	48	0.48	TO-220F
MSF14N60	N Channel	600	±30	14	8.4	60	0.55	TO-220F
MSF15N60	N Channel	600	±30	15	9.5	53	0.52	TO-220F
MSF16N50	N Channel	500	±30	16	10	205	0.38	TO-220F
MSF18N50	N Channel	500	±30	18	10.8	235	0.32	TO-220F
MSF20N50	N Channel	500	±30	20	13	40	0.26	TO-220F
MSW9N90	N Channel	900	±30	9	5.7	280	1.40	TO-247
MSF6N70	N Channel	700	±30	6	3.5	48	1.80	TO-220F
MSF6N90	N Channel	900	±30	6	3.8	56	2.40	TO-220F
MSF7N60	N Channel	600	±30	7	4.4	31	1.20	TO-220F
MSF7N65	N Channel							TO-220F
MSF7N80	N Channel	800	±30	7	4.2	56	1.90	TO-220F
MSF8N60	N Channel	600	±30	7.4	4.5	48	1.20	TO-220F
MSF8N50	N Channel	500	±30	8	4.8	44	0.85	TO-220F
MSF8N80	N Channel	800	±30	8	5	59	1.60	TO-220F
MSF9N70	N Channel	700	±30	9	5.4	35	1.00	TO-220F
MSF9N90	N Channel	900	±30	9	6	280	1.40	TO-220F
MSF10N60	N Channel	600	±30	9.5	5.7	50	2.40	TO-220F
MSF10N65	N Channel	650	±30	10	6	52	2.40	TO-220F
MSF10N80	N Channel	800	±30	10	6.5	60	1.10	TO-220F
MSF10N80A	N Channel	800	±30	10	6	60	1.40	TO-220F
MSF10N40	N Channel	400	±30	10.5	6.6	45.5	2.40	TO-220F
MSF11N70	N Channel	700	±30	11	6.5	35	1.20	TO-220F
MSF12N60	N Channel	600	±30	12	7.5	54	0.65	TO-220F
MSF12N65	N Channel	650	±30	12	7.4	54	0.85	TO-220F
MSF13N50	N Channel	500	±30	13	8	48	0.48	TO-220F
MSF14N60	N Channel	600	±30	14	8.4	60	0.55	TO-220F
MSF15N60	N Channel	600	±30	15	9.5	53	0.52	TO-220F

MOSFETs

HV MOSFETs

Part Number	Channel Polarity	VDSS (V)	VGS (V)	ID Max (A)		PD Max (W)	Rds(on) Max @ VGS = 10 V (Ω)	Package
				Tc=25°C	Tc=100°C			
MSF16N50	N Channel	500	±30	16	10	205	0.38	TO-220F
MSF18N50	N Channel	500	±30	18	10.8	235	0.32	TO-220F
MSF20N50	N Channel	500	±30	20	13	40	0.26	TO-220F
MSW9N90	N Channel	900	±30	9	5.7	280	1.40	TO-247
MSW10N80	N Channel	800	±30	10	6.3	240	1.10	TO-247
MSW11N90	N Channel	900	±30	11	6.6	300	1.10	TO-247
MSW16N50	N Channel	500	±30	16	10	205	0.38	TO-247
MSW20N50	N Channel	500	±30	20	13	215	0.26	TO-247
MSW20N60	N Channel	600	±30	20	12	320	0.32	TO-247
MSU1N60	N Channel	600	±30	1	0.65	30	10.00	TO-251
MSU2N70	N Channel	700	±30	1.6	1	44	6.00	TO-251
MSU2N60	N Channel	600	±30	2	1.1	44	4.70	TO-251
MSU2N60S	N Channel	600	±30	2	1.1	44	4.70	TO-251
MSU4N40	N Channel	400	±30	4.5	3	25	0.90	TO-251
MSU4N60	N Channel	600	±30	4.5	2.6	31	2.50	TO-251
MSU4N60 S	N Channel	600	±30	4.5	2.6	50	4.70	TO-251
MSU4N65	N Channel	600	±30	3.6	2.3	55	2.90	TO-251
MSU5N60	N Channel	600	±30	4.5	2.6	50	1.50	TO-251
MSU5N50	N Channel	500	±30	5	3	40	1.50	TO-251
MSD2N60	N Channel	600	±30	2	1.3	23	4.70	TO-252
MSD2N70	N Channel	700	±30	1.6	1	44	6.00	TO-252
MSD4N70	N Channel	700	±30	3.6	2.3	55	2.40	TO-252
MSD4N40	N Channel	400	±30	4.5	3	2.5	0.90	TO-252
MSD6N60	N Channel	600	±30	4.5	2.6	33	2.30	TO-252
MSD4N60	N Channel	600	±30	4.5	2.6	31	2.50	TO-252
MSB15N60	N Channel	600	±30	15	9.5	245	0.52	TO-263
MSF14N60	N Channel	600	±30	14	8.4	60	0.55	TO-220F
MSF15N60	N Channel	600	±30	15	9.5	53	0.52	TO-220F
MSF16N50	N Channel	500	±30	16	10	205	0.38	TO-220F
MSF18N50	N Channel	500	±30	18	10.8	235	0.32	TO-220F
MSF20N50	N Channel	500	±30	20	13	40	0.26	TO-220F
MSW9N90	N Channel	900	±30	9	5.7	280	1.40	TO-247
MSW10N80	N Channel	800	±30	10	6.3	240	1.10	TO-247
MSW11N90	N Channel	900	±30	11	6.6	300	1.10	TO-247
MSW16N50	N Channel	500	±30	16	10	205	0.38	TO-247
MSW20N50	N Channel	500	±30	20	13	215	0.26	TO-247
MSW20N60	N Channel	600	±30	20	12	320	0.32	TO-247
MSU1N60	N Channel	600	±30	1	0.65	30	10.00	TO-251
MSU2N70	N Channel	700	±30	1.6	1	44	6.00	TO-251
MSU2N60	N Channel	600	±30	2	1.1	44	4.70	TO-251
MSU2N60S	N Channel	600	±30	2	1.1	44	4.70	TO-251
MSU4N40	N Channel	400	±30	4.5	3	25	0.90	TO-251
MSD6N60	N Channel	600	±30	4.5	2.6	33	2.30	TO-252
MSD4N60	N Channel	600	±30	4.5	2.6	31	2.50	TO-252
MSB15N60	N Channel	600	±30	15	9.5	245	0.52	TO-263

MOSFETs

MOSFETs

Part Number	Channel Polarity	VDSS (V)	VGS (V)	ID (A)	Vth (V)	Rds(on) Max @ VGS =4.5 V (mΩ)	Rds(on) Max @ VGS =10 V (mΩ)	Package
MSA4P21	P	20	8	8.8	-	34	26	DFN2X2
MS9N20E	N	20	12	11	-	22	-	DFN2X5
MSK19N03	N	30	20	19	3	9.8	6.9	DFN3X3
MSC39N12	N	30	20	25		28	18	DFN3X3
MSC22N03	N	30	20	22	-	11.5	7.5	DFN5X6
MSC39N60X	N	30	20	115		3.3	2.4	DFN5X6
MSC39N02X	N	30	20	130		2.4	1.6	DFN5X6
MSC49N60X	N	40	20	100		3.5	2.8	DFN5X6
MSC49N02X	N	40	20	140		3	2.2	DFN5X6
MS74N62	N	60	20	13	-	26	22	DFN5X6
MS74N52	N	60	20	29	-	4.7	4.2	DFN5X6
MS40N06	N	60	20	40	-	20	18	DFN5X6
MSC09N74X	N	100	20/-12	70			6.5	DFN5X6
MSC40N04	N	40	20	18	2.5	8.5	6.5	DFN5X6
MS30N06X	N	30	20	40	-	5.6	4.5	PR-PAK
MSQ99N26	N	20	12	6	-	30	-	SO-8
MSQ94P33	P	20	12	8.3	-	60	-	SO-8
MS44P15	P	20	12	13.5	-	8.4	-	SO-8
MS42P03	P	30	20	42	-	25	15	SO-8
MSQ6N30	N	30	20	5		41	34	SO-8
MS49N20	N	30	20	6.9		41	34	SO-8
MS48P35	P	30	20	9.5		30	19	SO-8
MS17N03Q8	N	30	20	10	3	25	15	SO-8
MS48P25	P	30	25	11.5	-	19	13	SO-8
MSQ7434N	N	30	20	24	-	5.9	4.9	SO-8
MSQ27N30	N	30	20	27	-	5.5	4.6	SO-8
MSC37N03	N	30	20	37	-	4	2.5	SO-8
MSS37C10	N & P	30	20	N 10 & P 6.5	2.5	18	-	SO-8
MSB22A04Q8	N	40	20	8	3	30	20	SO-8
MS48N40	N	40	20	9.7		27	22	SO-8
MSS34N40	N	40	20	34	3	5	3	SO-8
MS45C41	N & P	40	20	N 5.8 & P 3.9	-	N 60 & P 125	N 42 & P 90	SO-8
MS49P63	P	60	20	3.5	-	180	120	SO-8
MS99N45	N	60	20	3.6	-	104	89	SO-8
MS67C10	N & P	N 60 & P	20	N 4.5 & P 3.5		63	54	SO-8
MS12N03	N	30	20	12	2.5	-	9	SOP-8
MS15P03	P	30	20	15	2.5	-	10	SOP-8
MSQ42N24	N	30	20	10	3	20	14	SOP-8
MSC40N09	N	40	20	15	2.5	13	9	SOP-8
MSQ5N06	N	60	20	5	2.5	50	40	SOT-223
MSQ4P06A	P	60	20	4	2.5	130	110	SOT-223
MSQ5N60	N	60	20	5	2.5	50	40	SOT-223
MSL03N20	N	200	30	3	5		0.85	SOT-223
MS23P05A	P	12	12	4.1	-	29	-	SOT-23

MOSFETs

MOSFETs

Part Number	Channel Polarity	VDSS (V)	VGS (V)	ID (A)	Vth (V)	Rds(on) Max @ VGS =4.5 V (mΩ)	Rds(on) Max @ VGS =10 V (mΩ)	Package
MS23P05	P	20	8	4.1	-	29	-	SOT-23
MS23N02	N	20	8	3.4	-	76	-	SOT-23
MS23P21	P	20	8	1	-1.5	79	-	SOT-23
MSP2301N3	P	20	20	2.3	-	95	-	SOT-23
BWS2301	P	20	8	2.3	-1.5	0.15	-	SOT-23
MS23P01	P	20	8	2.6	-	130	-	SOT-23
MS23P25	P	20	12	3.6	-	55	-	SOT-23
MS20N04NE	N	20	20	4	-	32	-	SOT-23
MSN23P09S	P	20	10	5.8		28	-	SOT-23
MS23N18	N	30	20	2.4		250	160	SOT-23
MSD23N22	N	30	20	2.5	3	102	62	SOT-23
MS23N22	N	30	20	2.5	-	102	62	SOT-23
MS34N02	N	30	12	3		75	65	SOT-23
MSB55N03N3	N	30	20	3.5	3	65	45	SOT-23
MS23P39	P	30	8	3.9	-	57	-	SOT-23
MS34P01	P	30	12	4.2	1.3	75	55	SOT-23
BW3402	N	30	12	4.6	18	50	30	SOT-23
MS23N36	N	30	12	5.2	-	32		SOT-23
MS23N26	N	30	20	6.4	-	41	34	SOT-23
MS40N02	N	40	20	5	2.5	45	30	SOT-23
BSS84	P	50	20	0.13	-2	10	8	SOT-23
BSS138	N	50	20	0.22	1.5	6	3.5	SOT-23
2N7002K	N	60	20	0.3	2.5		2	SOT-23
MS23P59	P	60	20	1.6		381	561	SOT-23
MS60P02NE	P	60	20	1.7	-	1.2	0.77	SOT-23
MSD23N58	N	60	50	2.8	-	107	92	SOT-23
MS23P61	P	60	20	3.4	-	250	210	SOT-23
MSK1N3	N	60	8	6		28		SOT-23
BSS123	N	100	20	0.17	2	10	6	SOT-23
MS23N70	N	100	20	1.5		355	280	SOT-23
MSE20N06N	N (Dual)	20	8	6	-	28	-	SOT-23-6
MSQ39N12	N-Channel	30	20	6.5	2.5	34	24	SOT-23-6
MS82N05E	N	20	12	6	-	16	-	SOT-26
MS13P21	P	20	8	1.7	-	79	-	SOT-323
MS13N30	N	30	20	2		82	58	SOT-323
MS14P21	P	20	8	3.7	-	79	-	SOT-323-6
MS15C37	N & P	30	20	N 1.25 & P	-	N130 & P 290	N 90 & P 190	SOT-323-6
MS23P19Z	P	20	8	0.25	-	650	-	SOT-883
MS23N20Z	N	20	8	0.5	-	350	-	SOT-883
MS49N02	N	40	20	160	2.5	3.5	2.5	TO-220
MS49N60	N	40	20	150	2.5	5	3.8	TO-220
MS69P05	P	60	20	20	-	65	48	TO-220
MS50N06	N	60	20	50	4	-	22	TO-220
MS90N06	N	60	20	90	-	-	3	TO-220

MOSFETs

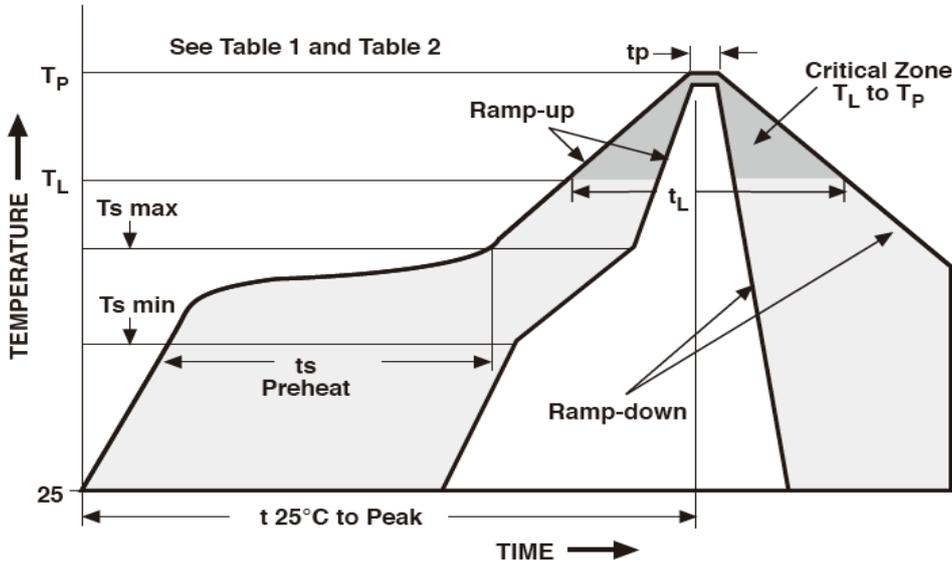
MOSFETs

Part Number	Channel Polarity	VDSS (V)	VGS (V)	ID (A)	Vth (V)	Rds(on) Max @ VGS =4.5 V (mΩ)	Rds(on) Max @ VGS =10 V (mΩ)	Package
MS75N080	P	75	25	83	-	-	8.8	TO-220
MS75N75	N	75	20	75	4	-	17	TO-220
MS80N08	N	80	20	120	3	11	8.5	TO-220
MSF9N20	N	200	20	9	3.5	-	0.4	TO-220F
MS20N06	N	60	20	19	-	109	94	TO-251
MSD80N03	N	25	20	80	3	7.6	5.3	TO-252
MSD36N12	N	30	12	23		40	30	TO-252
MSD40P03	P	30	25	41	-	33	20	TO-252
MSD50N03	N	30	30	50	3	12	75	TO-252
MSD39N08	N	30	20	55		13	9	TO-252
MS70N03	N	30	20	75	--	8	6	TO-252
MSD30N94	N	30	20	90	-	4.5	3.1	TO-252
MSD39N60	N	30	20	90	2.5	3.4	2.6	TO-252
MSD055N04	N	40	20	60	2.5	8.8	1.7	TO-252
MSD99P65	P	40	20	23	2.5	65	40	TO-252
MSD20N06	N	60	20	19	-	109	94	TO-252
MSD69P05	P	60	20	20		65	48	TO-252
MSD30P06	P	60	20	28	-	69	54	TO-252
MSD30N06	N	60	20	30	-	50	38	TO-252
MSD69N02	N	60	20	90	-	5.5	4.5	TO-252
MSD69N02	N	60	20	90	-	5.5	4.5	TO-252
MSD20N10	N	100	20	11	-	355	280	TO-252
MSD50N10	N	100	20	44	-	23	18	TO-252
MSD09N66	N	100	20	45	-	38	18	TO-252
MSB90N10	N	100	20	90	-	-	7	TO-263
MSB190N10	N	100	20	190	-	-	4	TO-263
MS34P07	P	20	12	5	-	34	-	TSOP-6
MS39P93	P	30	20	2.5	-	190	130	TSOP-6
MS34N34	N	30	12	6	15	32	-	TSOP-6
MSP02N10	N	100	20	2.2	3.5	355	280	TSOP-6
MS35C31	N & P	N 30 & P	12	N 3.7 & P 2.7	-	N 58 & P 112	-	TSOP-6
MS69N68	N	20	8	6.8	-	22	-	TSSOP-8
MS82N05A	N	20	12	6	-	16	-	TSSOP-8

Power Management Driver LED drivers

Product	Description	Package Type
BW9910	PWM high-efficiency LED driver control IC	SOP-8
BW9910A	PWM high-efficiency LED driver control IC	SOP-8
BW9130HV	3A LED Driver with Dimming Control	TO-220-5
BW9130HVB	3A LED Driver with Dimming Control	TO-263-5
BW6562A	High PFC LED Driver	SOP-8
BW7381	Universal High Brightness LED Driver	SOP-8
BW7386	Accuracy Constant Current LED Driver	SOT-26
BW7383	6 Pin Non-isolation Buck current control IC with High PFC for LED	SOT-26
BW7385	Non-isolation Buck current control IC with High PFC for LED Lighting	SOT-26
BW7385A	High Power Factor & Accuracy Constant Current LED Driver	SOT-23

REFLOW PROFILE



CLASSIFICATION REFLOW PROFILE

Profile Feature	Sn-Pb Eutectic Assembly		Pb (lead)-free Assembly	
	Large Body	Small Body	Large Body	Small Body
Average ramp-up rate (TL to TP)	3°C / second maximum		3°C / second maximum	
Preheat				
- Temperature Minimum (T _{min})	100°C		150°C	
- Temperature Maximum (T _{max})	150°C		200°C	
- Time (min to max) (ts)	60 - 120 seconds		60 - 180 seconds	
T _{max} to TL				
- Ramp-up Rate			3°C / second maximum	
Time maintained above:				
- Temperature (TL)	183°C		217°C	
- Time (t _L)	60 - 150 seconds		60 - 150 seconds	
Peak Temperature	(Table 1)	(Table 1)	(Table 2)	(Table 2)
Time within 5°C of actual peak temperature (tp)	10 - 30 seconds	10 - 30 seconds	10 - 30 seconds	20 - 40 seconds
Ramp-down rate	6°C / second maximum		6°C / second maximum	
Time 25°C to peak temperature	6 minutes maximum		8 minutes maximum	

Note: All temperatures refer to topside of the package, measured on the package body surface

Table 1 - PbSn Peak Reflow Temperature

Package Thickness	Volume mm ³ < 350	Volume mm ³ ≥ 350
< 2.5mm	240 +0/-5°C	225 +0/-5°C
≥ 2.5mm	225 +0/-5°C	225 +0/-5°C

Table 2 - Pb-free Peak Reflow Temperature

Package Thickness	Volume mm ³ < 350	Volume mm ³ 350 - 2000	Volume mm ³ > 2000
< 1.6mm	260 ± 0°C*	260 ± 0°C*	260 ± 0°C*
1.6mm - 2.5mm	260 ± 0°C*	250 ± 0°C*	245 ± 0°C*
≥ 2.5mm	250 ± 0°C*	245 ± 0°C*	245 ± 0°C*

*Tolerance: The device manufacturer/supplier shall assure process compatibility up to and including the stated classification temperature.

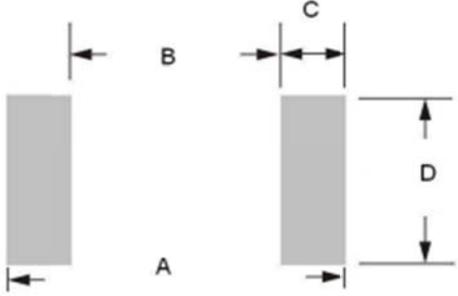
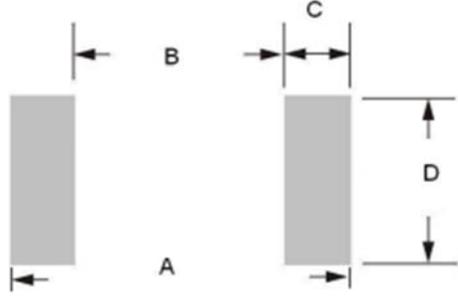
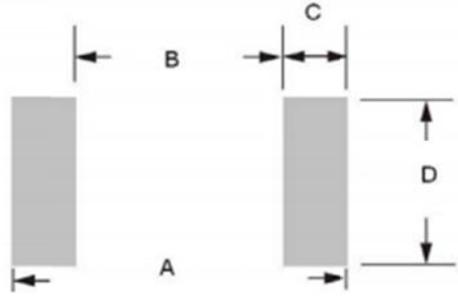
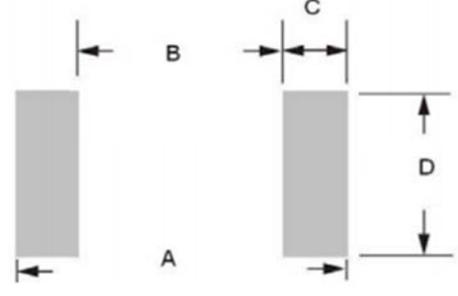
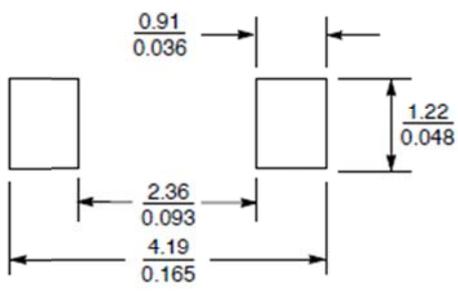
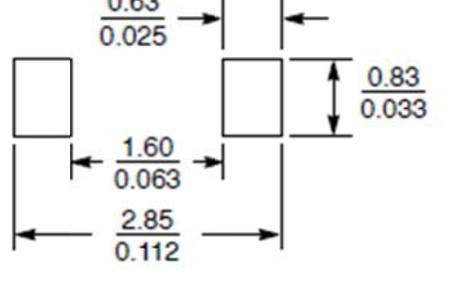
Note 1: Package volume excludes external terminals (balls, bumps, lands, leads) and/or non-integral heat sinks

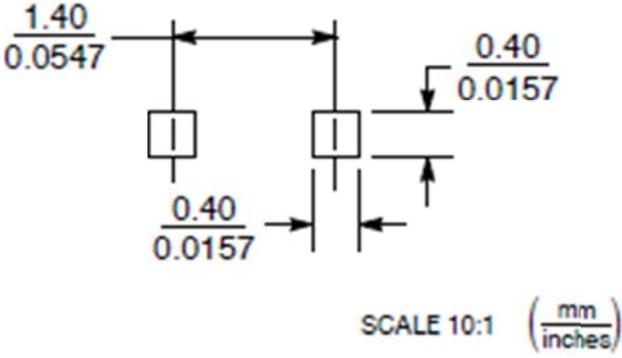
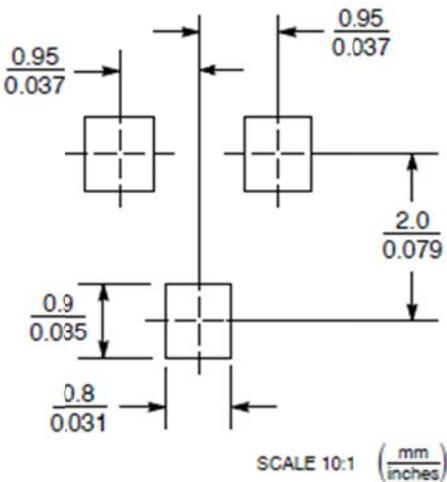
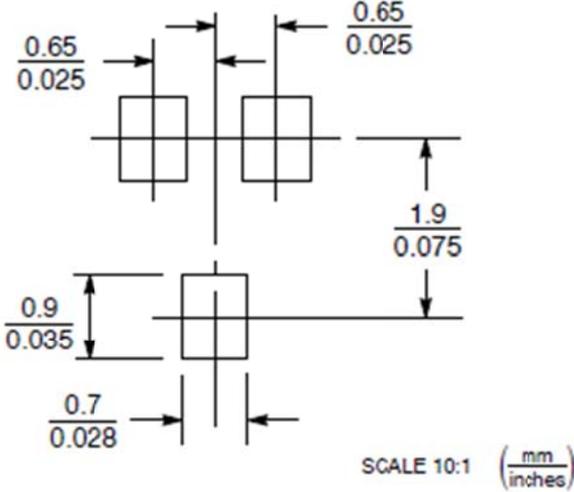
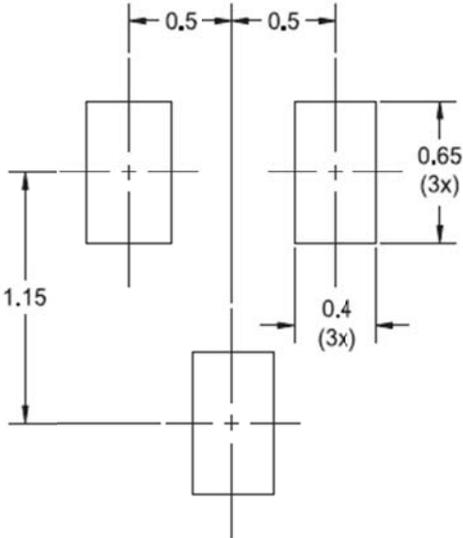
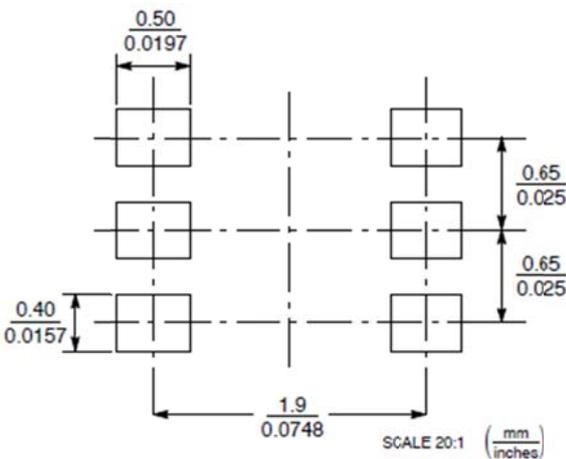
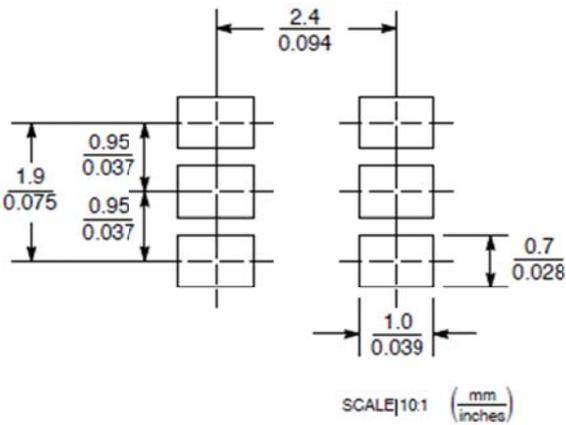
Note 2: The maximum component temperature reached during reflow depends on package thickness and volume. The use of convection

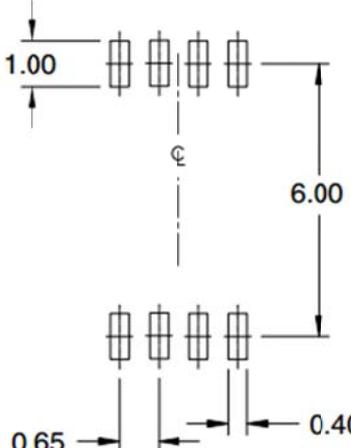
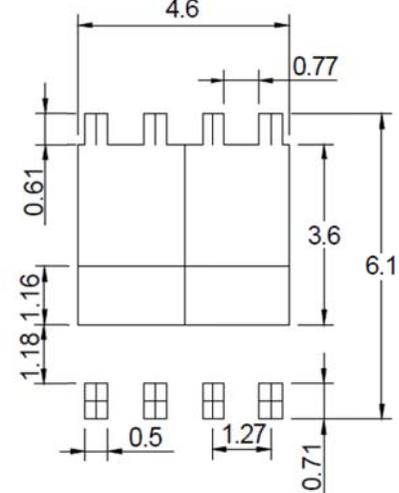
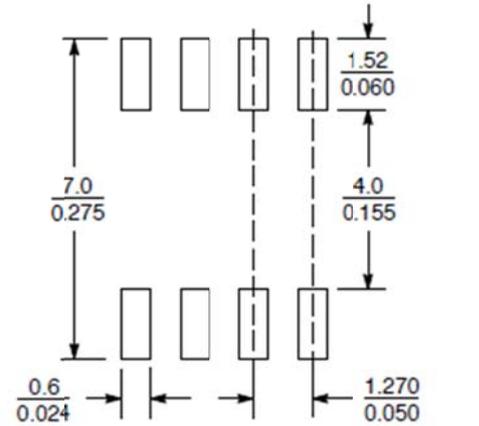
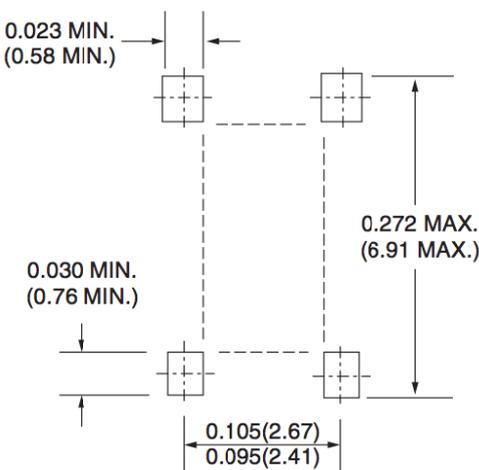
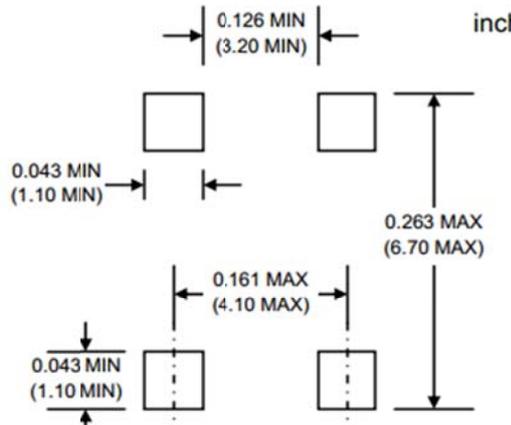
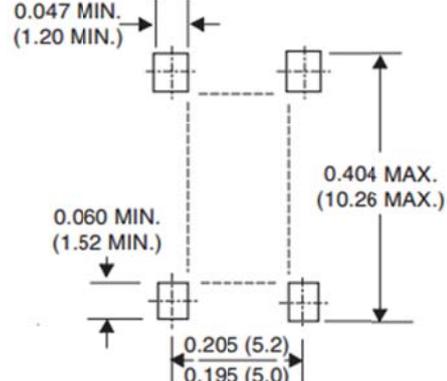
Reflow processes reduce the thermal gradients between packages. However, thermal gradients due to differences in thermal mass of SMD Packages may still exist.

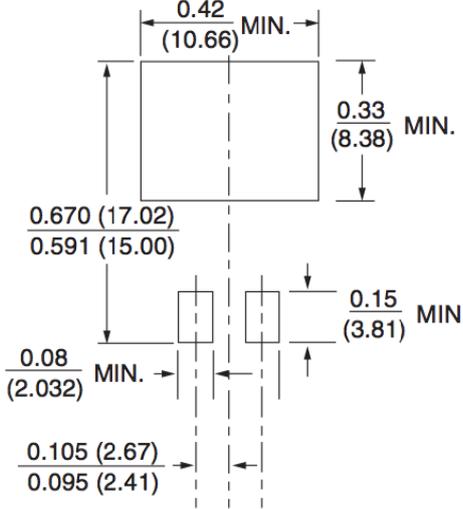
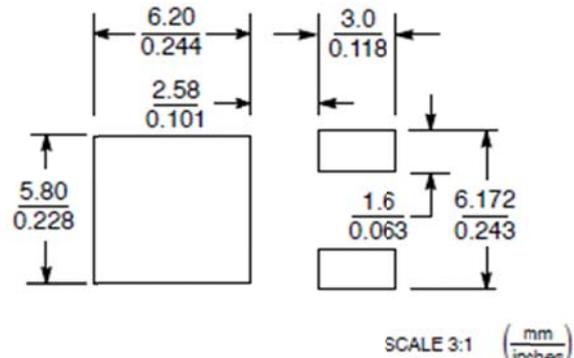
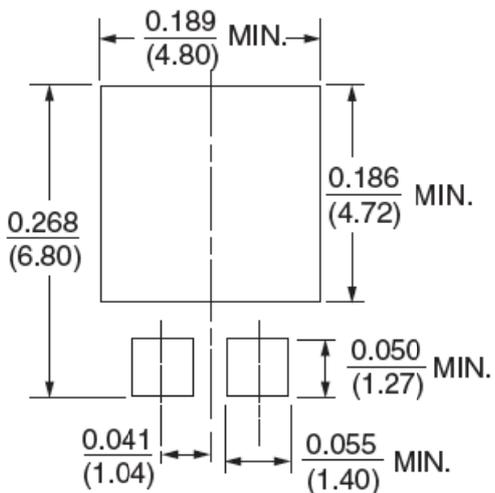
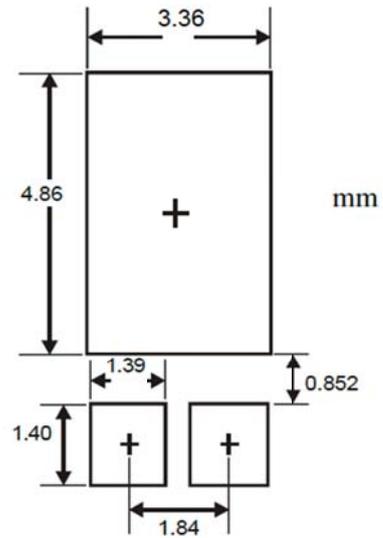
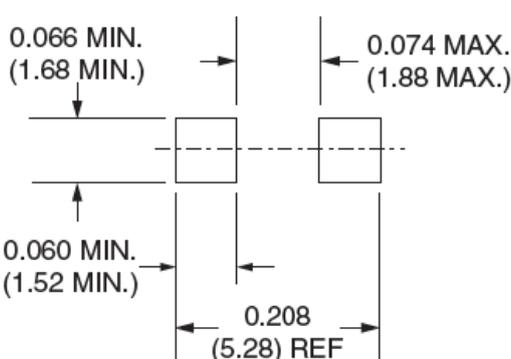
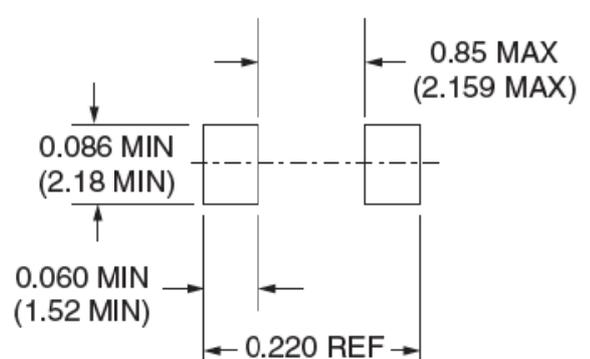
Suggested Pad Layouts

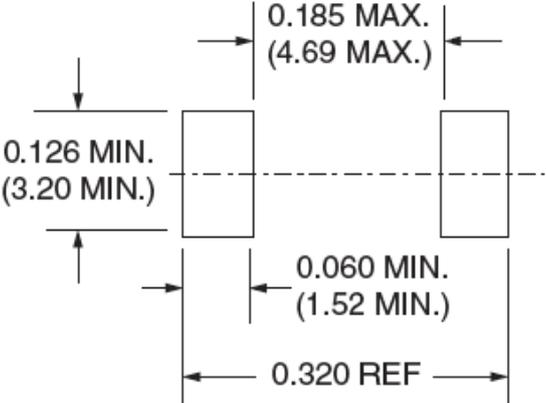
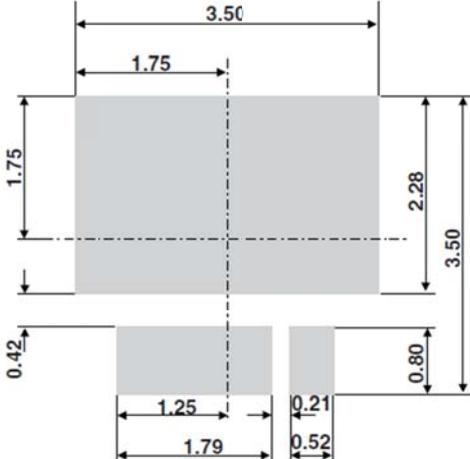
All dimensions in inches (millimeters)

<p>0402</p>  <p>A: 1.05, B: 0.50, C: 0.50, D: 0.5</p>	<p>0603</p>  <p>A: 1.8-2.6, B: 0.8, C: 0.5-0.9, D: 0.8-1.0</p>
<p>0805</p>  <p>A: 2.6-3.4, B: 1.2, C: 0.7-1.1, D: 1.2-1.4</p>	<p>1206</p>  <p>A: 3.8-4.6, B: 2.2, C: 0.8-1.2, D: 1.5-1.7</p>
<p>SOD-123</p>  <p>SCALE 10:1 ($\frac{\text{mm}}{\text{inches}}$)</p>	<p>SOD-323</p>  <p>SCALE 10:1 ($\frac{\text{mm}}{\text{inches}}$)</p>

<p>SOD-523</p>  <p>SCALE 10:1 (mm/inches)</p>	<p>SOT-23</p>  <p>SCALE 10:1 (mm/inches)</p>
<p>SOT-323 (SC70-3)</p>  <p>SCALE 10:1 (mm/inches)</p>	<p>SOT-523</p> 
<p>SOT-363 (SC70-6)</p>  <p>SCALE 20:1 (mm/inches)</p>	<p>TSOP-6</p>  <p>SCALE 10:1 (mm/inches)</p>

<p>TSOP-8</p>  <p>Diagram showing the dimensions of a TSOP-8 package. The package is 6.00 units high. The top row of pins is 1.00 units wide. The bottom row of pins is 0.65 units wide. The distance between the two rows of pins is 0.40 units. A dashed line indicates the center of the package.</p>	<p>SOIC-8</p>  <p>Diagram showing the dimensions of an SOIC-8 package. The package is 6.1 units high. The top row of pins is 4.6 units wide. The distance between the two rows of pins is 0.77 units. The package width is 1.18 units. The distance from the top edge to the top of the pins is 0.61 units. The distance from the bottom edge to the bottom of the pins is 1.16 units. The distance from the bottom edge to the top of the pins is 3.6 units. The distance between the two rows of pins is 0.71 units. The distance between the two rows of pins is 0.5 units. The distance between the two rows of pins is 1.27 units.</p>
<p>SO-8</p>  <p>Diagram showing the dimensions of an SO-8 package. The package is 7.0 units high. The distance between the two rows of pins is 0.275 units. The distance between the two rows of pins is 0.6 units. The distance between the two rows of pins is 1.270 units. The distance between the two rows of pins is 0.050 units. The distance between the two rows of pins is 1.52 units. The distance between the two rows of pins is 0.060 units. The distance between the two rows of pins is 4.0 units. The distance between the two rows of pins is 0.155 units. The diagram is scaled 6:1 in mm/inches.</p> <p>SCALE 6:1 (mm/inches)</p>	<p>MBS BRIDGE</p>  <p>Diagram showing the dimensions of an MBS BRIDGE package. The package is 0.272 MAX. (6.91 MAX.) units high. The distance between the two rows of pins is 0.023 MIN. (0.58 MIN.) units. The distance between the two rows of pins is 0.030 MIN. (0.76 MIN.) units. The distance between the two rows of pins is 0.105 (2.67) units. The distance between the two rows of pins is 0.095 (2.41) units.</p>
<p>ABS BRIDGE</p>  <p>Diagram showing the dimensions of an ABS BRIDGE package. The package is 0.263 MAX. (6.70 MAX.) units high. The distance between the two rows of pins is 0.126 MIN. (3.20 MIN.) units. The distance between the two rows of pins is 0.043 MIN. (1.10 MIN.) units. The distance between the two rows of pins is 0.161 MAX. (4.10 MAX.) units. The distance between the two rows of pins is 0.043 MIN. (1.10 MIN.) units. The diagram is scaled in inches.</p> <p>inch</p>	<p>DFS BRIDGE</p>  <p>Diagram showing the dimensions of a DFS BRIDGE package. The package is 0.404 MAX. (10.26 MAX.) units high. The distance between the two rows of pins is 0.047 MIN. (1.20 MIN.) units. The distance between the two rows of pins is 0.060 MIN. (1.52 MIN.) units. The distance between the two rows of pins is 0.205 (5.2) units. The distance between the two rows of pins is 0.195 (5.0) units.</p>

TO-263 (D2PAK)	TO-252 (DPAK)
 <p> 0.42 (10.66) MIN. 0.33 (8.38) MIN. 0.670 (17.02) 0.591 (15.00) 0.15 (3.81) MIN. 0.08 (2.032) MIN. 0.105 (2.67) 0.095 (2.41) </p>	 <p> 6.20 (0.244) 2.58 (0.101) 3.0 (0.118) 5.80 (0.228) 1.6 (0.063) 6.172 (0.243) SCALE 3:1 (mm/inches) </p>
TO-277A	TO-277B
 <p> 0.189 (4.80) MIN. 0.268 (6.80) 0.186 (4.72) MIN. 0.050 (1.27) MIN. 0.041 (1.04) 0.055 (1.40) MIN. </p>	 <p> 3.36 4.86 mm 1.39 0.852 1.40 1.84 </p>
SMA/DO-214AC	SMB/DO-214AA
 <p> 0.066 MIN. (1.68 MIN.) 0.074 MAX. (1.88 MAX.) 0.060 MIN. (1.52 MIN.) 0.208 (5.28) REF </p>	 <p> 0.85 MAX. (2.159 MAX.) 0.086 MIN. (2.18 MIN.) 0.060 MIN. (1.52 MIN.) 0.220 REF </p>

SMC/DO-214AB	DFN 3P3
 <p>0.126 MIN. (3.20 MIN.)</p> <p>0.185 MAX. (4.69 MAX.)</p> <p>0.060 MIN. (1.52 MIN.)</p> <p>0.320 REF</p>	 <p>3.50</p> <p>1.75</p> <p>1.75</p> <p>2.28</p> <p>3.50</p> <p>0.42</p> <p>1.25</p> <p>1.79</p> <p>0.21</p> <p>0.52</p> <p>0.80</p>

Discrete semiconductors selection guide

Bipolar transistors, diodes, ESD protection, filtering and signal conditioning and MOSFETs

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NOTE

Lined area for notes, consisting of multiple horizontal dashed lines.



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