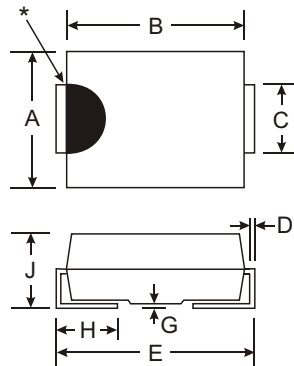


Features

- Guard Ring Die Construction for Transient Protection
- Ideally Suited for Automatic Assembly
- Low Power Loss, High Efficiency
- Surge Overload Rating to 100A Peak
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Application

Mechanical Data

- Case: Molded Plastic
- Plastic Material - UL Flammability Classification 94V-0
- Moisture sensitivity: Level 1 per J-STD-020A
- Terminals: Solder Plated Terminal - Solderable per MIL-STD-202, Method 208
- Also Available in Lead Free Plating (Matte Tin Finish). Please See Ordering Information, Note 5, on Page 3
- Polarity: Cathode Band
- Approx. Weight: SMA 0.064 grams
SMB 0.093 grams
SMC 0.21 grams
- Marking: Type Number (See Page 3)



	SMA		SMB		SMC	
Dim	Min	Max	Min	Max	Min	Max
A	2.29	2.92	3.30	3.94	5.59	6.22
B	4.00	4.60	4.06	4.57	6.60	7.11
C	1.27	1.63	1.96	2.21	2.75	3.18
D	0.15	0.31	0.15	0.31	0.15	0.31
E	4.80	5.59	5.00	5.59	7.75	8.13
G	0.10	0.20	0.10	0.20	0.10	0.20
H	0.76	1.52	0.76	1.52	0.76	1.52
J	2.01	2.62	2.00	2.62	2.00	2.62
All Dimensions in mm						

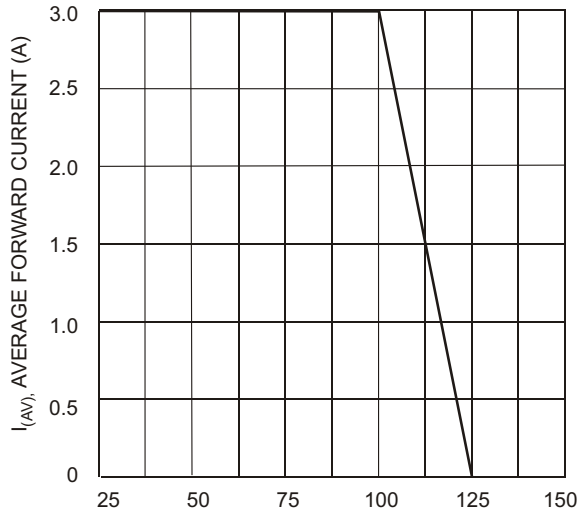
"A" Suffix Designates SMA Package
 "B" Suffix Designates SMB Package
 No Suffix Designates SMC Package
 *: Note: Device may have a semicircular indentation/notch on one side of the device (as shown).

Maximum Ratings and Electrical Characteristics @ T_A = 25°C unless otherwise specified

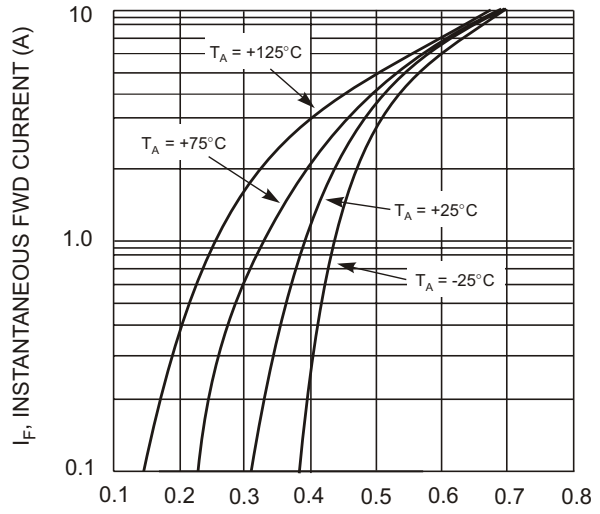
Single phase, half wave, 60Hz, resistive or inductive load.
 For capacitive load, derate current by 20%.

Characteristic	Symbol	B320/A/B	B330/A/B	B340/A/B	B350/A/B	B360/A/B	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	20	30	40	50	60	V
RMS Reverse Voltage	$V_{R(RMS)}$	14	21	28	35	42	V
Average Rectified Output Current @ $T_T = 100^{\circ}C$	I_O	3.0					A
Non-Repetitive Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	100					A
Forward Voltage (Note 3) @ $I_F = 3.0A$	V_{FM}	0.50			0.70		V
Peak Reverse Current @ $T_A = 25^{\circ}C$ at Rated DC Blocking Voltage (Note 3) @ $T_A = 100^{\circ}C$	I_{RM}	0.5 20					mA
Typical Capacitance (Note 2)	C_T	250					pF
Typical Thermal Resistance, Junction to Terminal (Note 1)	$R_{\theta JT}$	10					$^{\circ}C/W$
Typical Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	50					$^{\circ}C/W$
Operating Temperature Range	T_j	-55 to +125					$^{\circ}C$
Storage Temperature Range	T_{STG}	-55 to +150					$^{\circ}C$

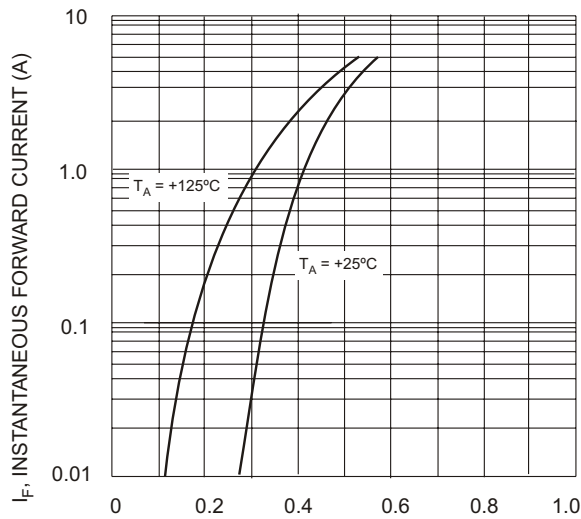
Notes: 1. Thermal Resistance: Junction to terminal, unit mounted on PC board with 5.0 mm² 0.013 mm thick) copper pad as heat sink.
 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.
 3. Short duration test pulse used to minimize self-heating effect.



T_T , TERMINAL TEMPERATURE (°C)
Fig. 1 Forward Current Derating Curve



V_F , INSTANTANEOUS FORWARD VOLTAGE (V)
Fig. 2 Typical Forward Characteristics - B320/A/B thru B340/A/B



V_F , INSTANTANEOUS FORWARD VOLTAGE (V)
Fig. 3 Typ. Forward Characteristics - B350/A/B thru B360/A/B

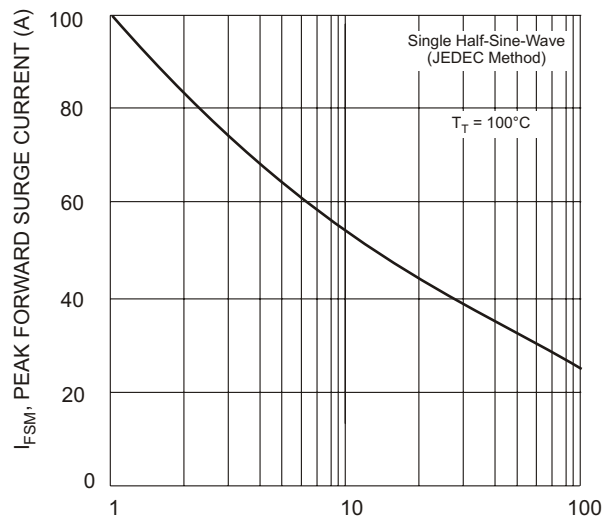
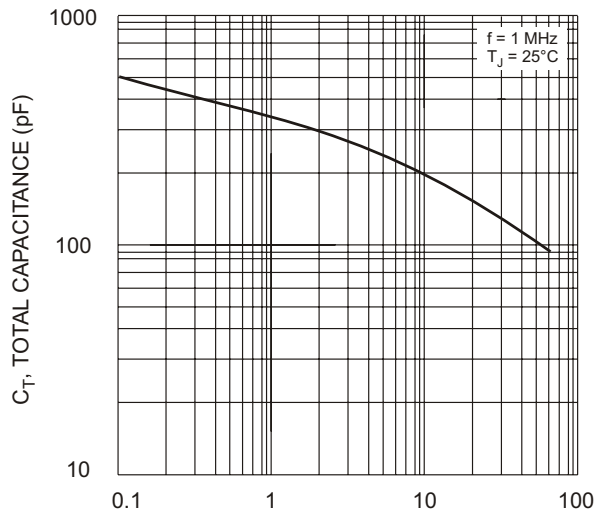
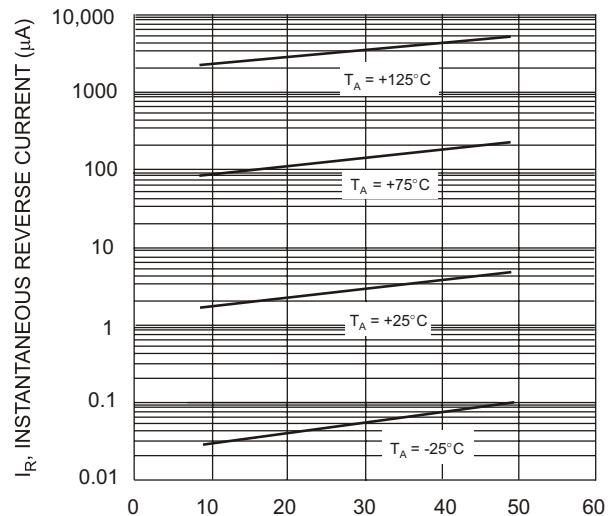


Fig. 4 Max Non-Repetitive Peak Fwd Surge Current



V_R , REVERSE VOLTAGE (V)
Fig. 5 Typical Capacitance



V_R , INSTANTANEOUS REVERSE VOLTAGE (V)
Fig. 6 Typical Reverse Characteristics, B320/A/B thru B340/A/B

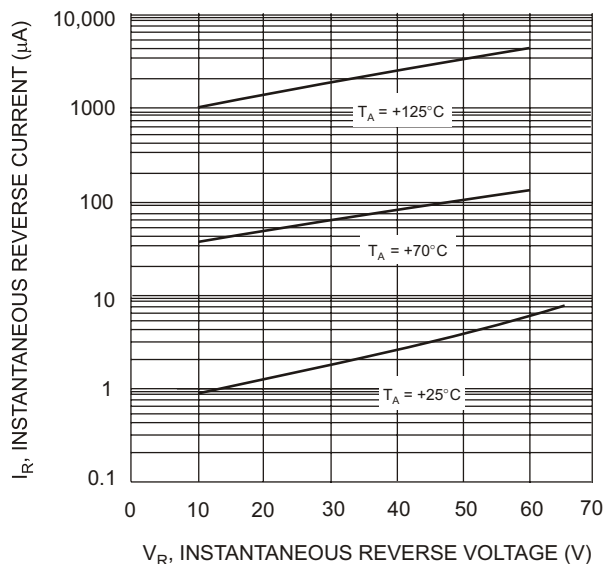
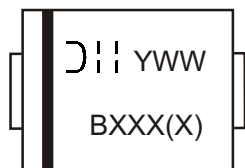


Fig. 7 Typical Reverse Characteristics, B350/A/B thru B360/A/B

Ordering Information (Note 4 & 5)

Device*	Packaging	Shipping
B3XXA-13	SMA	5000/Tape & Reel
B3XXB-13	SMB	3000/Tape & Reel
B3XX-13	SMC	3000/Tape & Reel

- Notes:
- For Packaging Details, go to our website at <http://www.diodes.com/datasheets/ap02007.pdf>.
 - * xx = Device type, e.g. B320A-13 (SMA package); B320B-13 (SMB package); B320-13 (SMC Package).
 - For lead free terminal plating part number, please add "-F" suffix to part number above. Example: B320A-13-F.



BXXX = Product type marking code, ex: B320 (SMC package)
 BXXXX = Product type marking code, ex: B320A (SMA package)
 DII = Manufacturers' code marking
 YWW = Date code marking
 Y = Last digit of year ex: 2 for 2002
 WW = Week code 01 to 52

Note: Device has a cathode band (as shown above) and may also have a cathode notch (as shown on Page 1).

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

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Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

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