### 查询B330A-13-F供应商

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# 3.0A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

**B320A - B360A** 

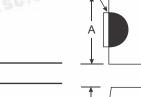
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# **Features**

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

Lead Free Finish/RoHS Compliant (Note 4)



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Case: SMA

Case Material: Molded Plastic. UL Flammability Classification 94V-0 Moisture Sensitivity: Level 1 per J-STD-020C

Terminals: Lead Free Plating (Matte Tin Finish).

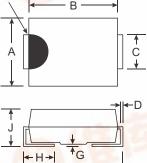
DZSC.COM Solderable per MIL-STD-202, Method 208 (e3)

Polarity: Cathode Band

Marking Information: See Page 3

Ordering Information: See Page 3

Approximate Weight: SMA 0.064 grams



Dim	SMA			
Dim	Min	Мах		
Α	2.29	2.92		
В	4.00	4.60		
С	1.27	1.63		
D	0.15	0.31		
E	4.80	5.59		
G	0.10	0.20		
W H	0.76	1.52		
J	2.01	2.30		
All D	All Dimensions in mm			

: Note: Device may have a semicircular indentation/ notch on one side of the device (as shown).

#### @ $T_A = 25^{\circ}C$ unless otherwise specified Maximum Ratings and Electrical Characteristics

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

				1			
Characteristic	Symbol	B320A	B330A	B340A	B350A	B360A	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	20	30	40	50	60	v
RMS Reverse Voltage	V <sub>R(RMS)</sub>	14	21	28	35	42	V
Average Rectified Output Current @ T <sub>T</sub> = 100°C	lo			3.0		- 421	Α
Non-Repetitive Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>			100	37	19.0.01	A
Forward Voltage (Note 3) $@$ I <sub>F</sub> = 3.0A	V <sub>FM</sub>		0.50	100	0.	70	V
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	I <sub>RM</sub>	338 1	BE	0.5 20			mA
Typical Capacitance (Note 2)	Ст	1		200			pF
Typical Thermal Resistance, Junction to Terminal	R JT			25			°C/W
Typical Thermal Resistance, Junction to Ambient (Note 1)		100			°C/W		
Operating Temperature Range		-55 to +125			°C		
Storage Temperature Range		-55 to +150				°C	



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1. Thermal Resistance: Junction to terminal, unit mounted on glass expoxy substrate with 2x3mm copper pad.

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.

4. RoHS revision 13.2.2003. High Temperature Solder Exemption Applied, see EU Directive Annex Note 7.

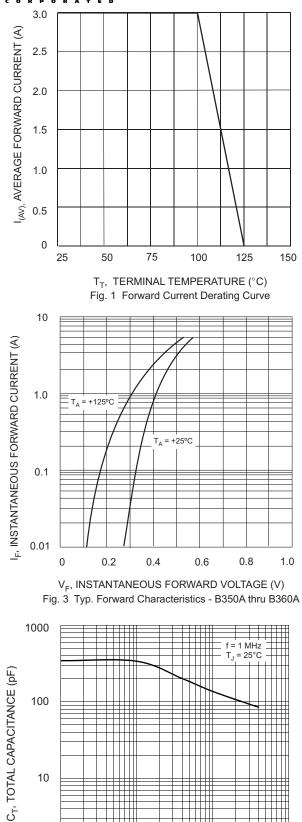


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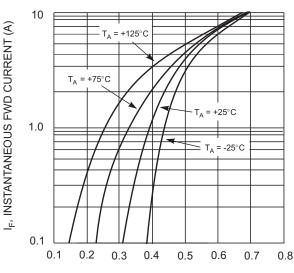


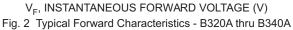
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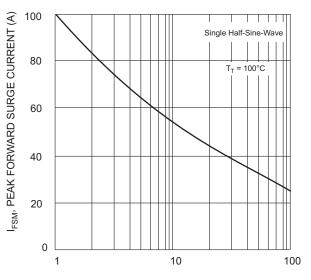
V<sub>R</sub>, DC REVERSE VOLTAGE (V)

Fig. 5 Typical Capacitance

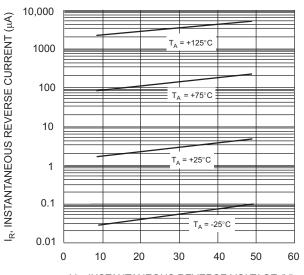
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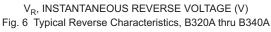






NUMBER OF CYCLES AT 60 Hz Fig. 4 Max Non-Repetitive Peak Fwd Surge Current







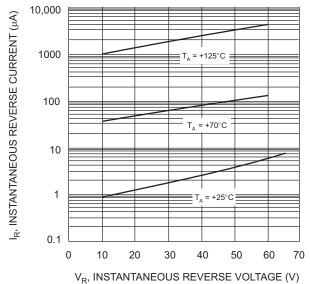


Fig. 7 Typical Reverse Characteristics, B350A thru B360A

# Ordering Information (Note 5)

Device*	Packaging	Shipping
B3XXA-13-F	SMA	5000/Tape & Reel

Notes: 5. For Packaging Details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

\* xx = Device type, e.g. B320A-13-F (SMA package).

# **Marking Information**



B3X0A = Product type marking code, ex: B320A D'I'= 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).

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