

捷多邦,专业PCB打样工厂,24小时加急出货

<u> B270 - B2100</u>

2.0A HIGH VOLTAGE SCHOTTKY BARRIER RECTIFIER

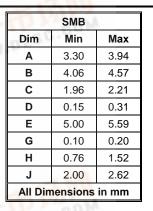
Features

- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- Low Power Loss, High Efficiency
- Surge Overload Rating to 50A Peak
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Application
- High Temperature Soldering: 260°C/10 Second at Terminal
- Lead Free Finish/RoHS Compliant (Note 3)

Mechanical Data

- Case: SMB
- Case Material: Molded Plastic. UL Flammability
 Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020C
- Terminals: Lead Free Plating (Matte Tin Finish). Solderable per MIL-STD-202, Method 208 (3)
- Polarity: Cathode Band or Cathode Notch
- Marking Information: See Page 3
- Ordering Information: See Page 3
- Weight: 0.093 grams (approximate)

$\begin{array}{c} & B \\ \hline \\ A \\ \hline \\ \hline \\ \\ \hline \\ \hline \\ \\ \hline \hline \\ \hline \\ \hline \\ \hline \\ \hline \hline$



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

Single phase, half wave, 60Hz, resistive or inductive load.

Characteristic	Symbol	B270	B280	B290	B2100	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	70	80	90	100	V
RMS Reverse Voltage	V _{R(RMS)}	49	56	63	70	V
Average Rectified Output Current @ T _T = 125°C	lo	2.0			А	
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	50			А	
Forward Voltage @ $I_F = 2.0A$ @ $T_A = 25^{\circ}C$ @ $T_A = 100^{\circ}C$	V _{FM}	0.79 0.69			V	
Peak Reverse Current @ $T_A = 25^{\circ}C$ at Rated DC Blocking Voltage @ $T_A = 100^{\circ}C$	I _{RM}	0.5 15			mA	
Typ <mark>ical Tot</mark> al Capacitance (Note 2)	CT	75			pF	
Typical Thermal Resistance Junction to Terminal (Note 1)	R _{0JT}	15			°C/W	
Operating and Storage Temperature Range	T _{j,} T _{STG}	-65 to +150			°C	

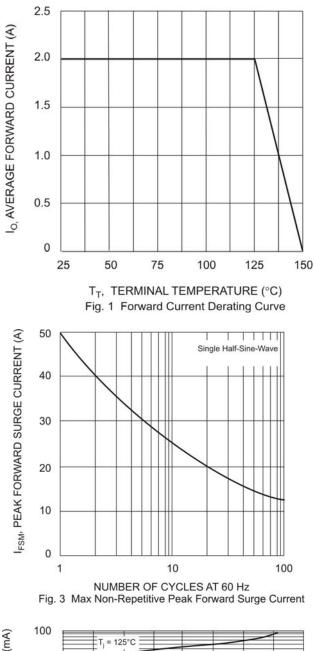
Notes: 1. Valid provided that terminals are kept at ambient temperature.

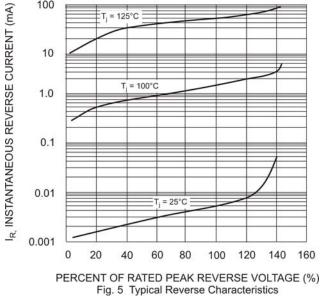
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

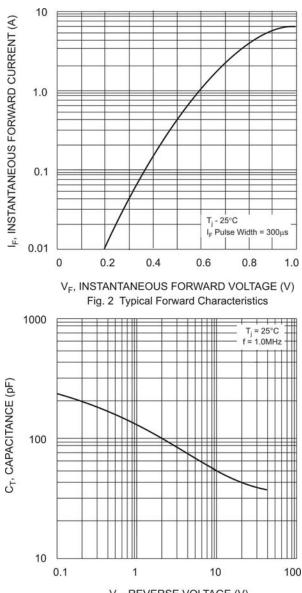
3 RoHS revision 13.2.2003. Glass and high temperature solder exemptions applied, see EU Directive Annex Notes 5 and 7.











 V_{R} , REVERSE VOLTAGE (V) Fig. 4 Typical Total Capacitance



Ordering Information (Note 4)

Device*	Packaging	Shipping	
B2xxx-13-F	SMB	3000/Tape & Reel	

* x = Device type, e.g. B270-13-F

Notes: 4. For Packaging Details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

Marking Information



XXXX = Product type marking code, ex: B290 (SMB package)); i = Manufacturers' code marking YWW = Date code marking Y = Last digit of year ex: 2 for 2002 WW = Week code 01 to 52

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