查询B120-13-F供应商

捷多邦,专业PCB打样工厂,24小时加急出货

1.0A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER



B120/B - B160/B

Features Guard Ring Die Construction for **Transient Protection** SMA SMB Ideally Suited for Automatic Assembly Dim B Min Max Min Max Low Power Loss, High Efficiency 2.29 2.92 3.30 3.94 Surge Overload Rating to 30A Peak Α For Use in Low Voltage, High Frequency Inverters, Free 4.06 В 4.00 4.60 4.57 С Wheeling, and Polarity Protection Application С 1.27 1.63 1.96 2.21 ¥ Lead Free Finish/RoHS Compliant (Note 3) D 0.15 0.31 0.15 0.31 5.59 Ε 4.80 5.00 5.59 D **Mechanical Data** G 0.20 0.10 0.20 0.10 1.52 1.52 н 0.76 0.76 Case: SMA/SMB J 2.01 2.62 2.00 2.62 G H-> Case Material: Molded Plastic. UL Flammability All Dimensions in mm Е Classification Rating 94V-0 Moisture Sensitivity: Level 1 per J-STD-020C

No Suffix Designates SMA Package "B" Suffix Designates SMB Package



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%.

Terminals: Lead Free Plating (Matte Tin Finish).

Characteristic		Symbol	B120/B	B130/B	B140/B	B150/B	B160/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 = 130°C	lo			1.0	2-1-1	1.00	А
Non-Repetitive Peak Forward Surge Cu single half sine-wave superimposed on		I _{FSM}	_	US S	30	WW.P	130	A
Forward Voltage	@ I _F = 1.0A	VFM	190	0.50		0.	70	V
Peak Reverse Current at Rated DC Blocking Voltage	@ T _A = 25°C @ T _A = 100°C	I _{RM}	0.5 10			mA		
Typical Total Capacitance (Note 2)		Ст	110			pF		
Typical Thermal Resistance Junction to Terminal (Note 1)		R JT	20			°C/W		
Operating and Storage Temperature Range		T _{j,} T _{STG}	-65 to +150				°C	

Notes:

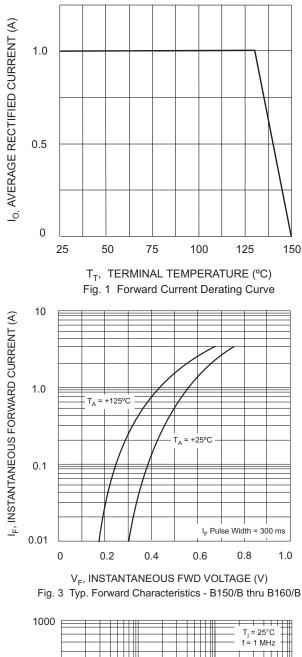
1. Thermal Resistance: Junction to terminal, unit mounted on PC board with 5.0 mm² (0.013 mm thick) copper pads as heat sink.

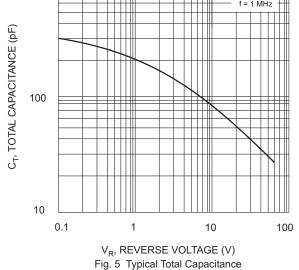
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

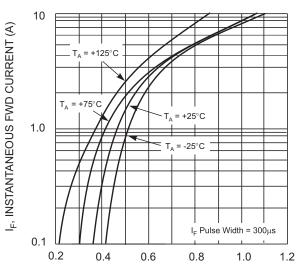
3. RoHS revision 13.2.2003. High Temperature Solder Exemption Applied, see EU Directive Annex Note 7.



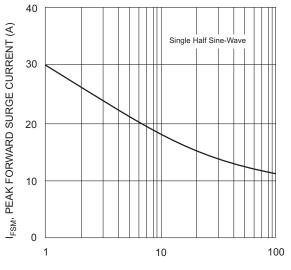




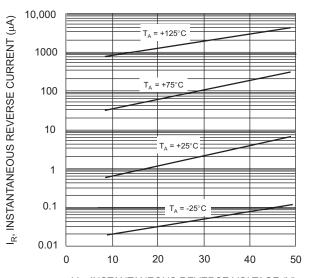


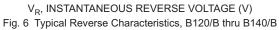






NUMBER OF CYCLES AT 60 Hz Fig. 4 Max Non-Repetitive Peak Fwd Surge Current







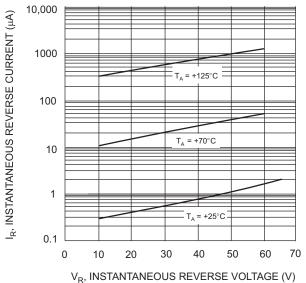


Fig. 7 Typical Reverse Characteristics, B150/B thru B160/B

Ordering Information (Note 4)

Device*	Packaging	Shipping		
B1XX-13-F	SMA	5000/Tape & Reel		
B1XXB-13-F	SMB	3000/Tape & Reel		

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

* xx = Device type, e.g. B120-13-F (SMA package); B120B-13-F (SMB package).

Marking Information



B1X0 = Product type marking code, ex: B120 (SMA package) B1X0B = Product type marking code, ex: B160B (SMB package) Chi = 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).

IMPORTANT NOTICE

Diodes Incorporated and its subsidiaries reserve the right to make modifications, enhancements, improvements, corrections or other changes without further notice to any product herein. Diodes Incorporated does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold Diodes Incorporated and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

Diodes Incorporated products are not authorized for use as critical components in life support devices or systems without the expressed written approval of the President of Diodes Incorporated.