

B1100LB

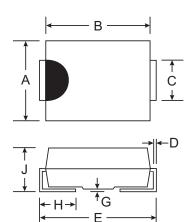
1.0A HIGH VOLTAGE SCHOTTKY BARRIER RECTIFIER

Features

- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- Ideally Suited for Automatic Assembly
- 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
- Terminals: Lead Free Plating (Matte Tin Finish). Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band or Cathode Notch
- Marking: B1100LB or B110LB and Date Code
- Weight: 0.093 grams (approx.)



SMB				
Dim	Min	Max		
Α	3.30	3.94		
В	4.06	4.57		
С	1.96	2.21		
D	0.15	0.31		
Е	5.00	5.59		
G	0.10	0.20		
н	0.76	1.52		
J	2.00	2.40		
All Dimensions in mm				

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

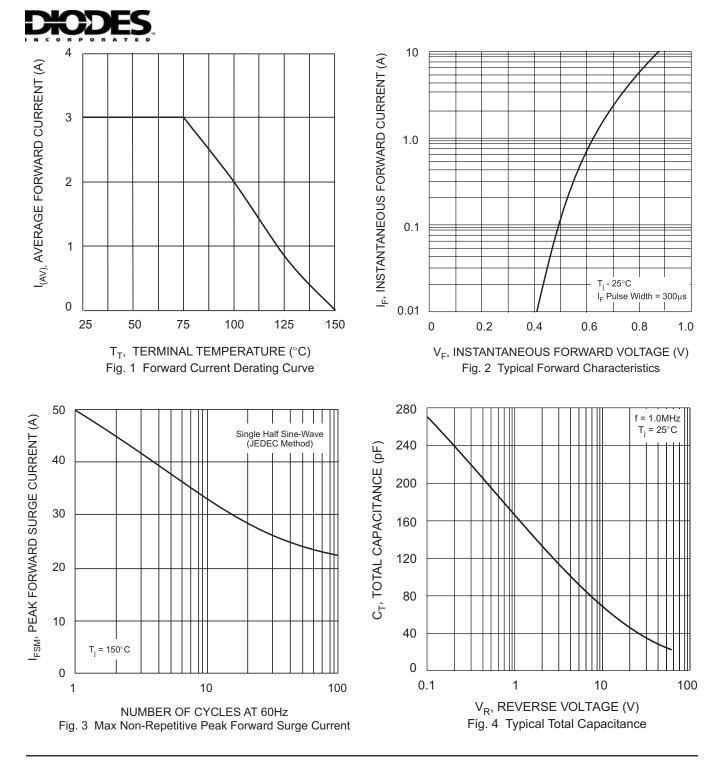
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage@ I _R = 0.5mA	V _{RRM} V _{RWM} VR	100	V
RMS Reverse Voltage	V _{R(RMS)}	70	V
Average Rectified Output Current	lo	1.0 2.0	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	50	A
Forward Voltage $@$ I _F = 1.0A, T _A = 25°C	V _{FM}	0.75	V
Peak Reverse Current@ $T_A = 25^{\circ}C$ at Rated DC Blocking Voltage@ $T_A = 100^{\circ}C$	I _{RM}	0.5 5.0	mA
Typical Total Capacitance (Note 2)	Ст	100	pF
Typical Thermal Resistance Junction to Terminal (Note 1)	R _{θJT}	22	°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 1.0MHz and applied reverse voltage of 4.0V DC.

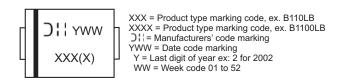
3. RoHS revision 13.2.2003. Glass and High Temperature Solder Exemptions Applied, see EU Directive Annex Notes 5 and 7.



Ordering In	formation (Note 4)
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Device	Packaging	Shipping
B1100LB-13-F	SMB	3000/Tape & Reel

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



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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