

# 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
- Plastic Material: UL Flammability Classification Rating 94V-0

### **Mechanical Data**

- Case: SMB, Molded Plastic
- Terminals: Solder Plated Terminal -Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band or Cathode Notch
- Marking: B110LB and Date Code
- Weight: 0.093 grams (approx.)

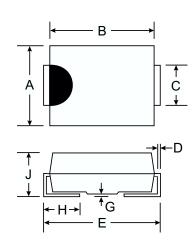
## Maximum Ratings and Electrical Characteristics @ T<sub>A</sub> = 25°C unless otherwise specified

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

Characteristic	Symbol	B1100LB	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	100	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	70	V
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	lo	1.0 2.0	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave Superimposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	50	A
Forward Voltage @ $I_F = 1.0A$ , $T_A = 25^{\circ}C$	V <sub>FM</sub>	0.75	V
Peak Reverse Current@ $T_A = 25^{\circ}C$ at Rated DC Blocking Voltage@ $T_A = 100^{\circ}C$	I <sub>RM</sub>	0.5 5.0	mA
Typical Junction Capacitance (Note 2)	Cj	100	pF
Typical Thermal Resistance Junction to Terminal (Note 1)	$R_{ ext{ heta}JT}$	22	K/W
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>STG</sub>	-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.



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	2.62	
All Dimensions in mm			

