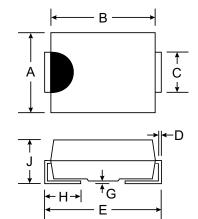


## 2.0A HIGH VOLTAGE SCHOTTKY BARRIER RECTIFIER

## **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



SMB					
Dim	Min	Max			
Α	3.30	3.94			
В	4.06	4.57			
С	1.96	2.21			
D	0.15	0.31			
E	5.00	5.59			
G	0.10	0.20			
Н	0.76	1.52			
J	2.00	2.62			
All Dimensions in mm					

## **Mechanical Data**

Case: SMB, Molded Plastic

 Terminals: Solder Plated Terminal -Solderable per MIL-STD-202, Method 208

Polarity: Cathode Band or Cathode Notch

Weight: 0.093 grams (approx.)

Mounting Position: AnyMarking: Type Number

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

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

Characteristic		B270	B280	B290	B2100	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	70	80	90	100	٧
RMS Reverse Voltage	V <sub>R(RMS)</sub>	49	56	63	70	٧
Average Rectified Output Current @ T <sub>T</sub> = 125°C I <sub>O</sub> 2.0			Α			
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		50				A
Forward Voltage @ $I_F$ = 2.0A		0.79 0.69				<
	I <sub>RM</sub>	0.5 15				mA
Typical Junction Capacitance (Note 2)		75				pF
Typical Thermal Resistance Junction to Terminal (Note 1)		15				K/W
Operating and Storage Temperature Range		-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.

