

**SCHOTTKY BARRIER RECTIFIERS**

REVERSE VOLTAGE - **70 to 100** Volts  
FORWARD CURRENT - **2.0** Amperes

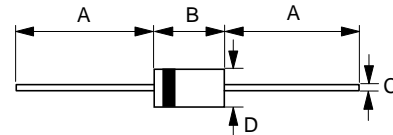
**FEATURES**

- Metal-Semiconductor junction with guard ring
- Epitaxial construction
- Low forward voltage drop
- High current capability
- The plastic material carries UL recognition 94V-0
- For use in low voltage,high frequency inverters,free wheeling,and polarity protection applications

**MECHANICAL DATA**

- Case : JEDEC DO-15 molded plastic
- Polarity : Color band denotes cathode
- Weight : 0.015 ounces, 0.4 grams
- Mounting position : Any

**DO-15**



DO-15		
Dim.	Min.	Max.
A	25.4	-
B	5.80	7.60
C	0.71 $\varnothing$	0.86 $\varnothing$
D	2.60 $\varnothing$	3.60 $\varnothing$
All Dimensions in millimeter		

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified.  
Single phase, half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	SB270	SB280	SB290	SB2100	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	70	80	90	100	V
Maximum RMS Voltage	VRMS	49	56	63	70	V
Maximum DC Blocking Voltage	VDC	70	80	90	100	V
Maximum Average Forward Rectified Current @TA=75°C	I(AV)	2.0				A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load	IFSM	60				A
Maximum forward Voltage at 2.0A DC @TJ=25°C @TJ=100°C	VF	0.79 0.69				V
Maximum DC Reverse Current at Rated DC Blocking Voltage @TJ=25°C @TJ=100°C	IR	0.5 10				mA
Typical Thermal Resistance (Note 1)	RθJC	10				°C/W
Typical Thermal Resistance (Note 2)	RθJA	20				°C/W
Typical Junction Capacitance (Note 3)	CJ	250				pF
Operating Temperature Range	TJ	-55 to +125				°C
Storage Temperature Range	TSTG	-55 to +150				°C

NOTES : 1.Thermal Resistance Junction to Case.  
2. Thermal Resistance Junction to Ambient.  
3. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

