

## **SB170 thru SB1100**

### **SCHOTTKY BARRIER RECTIFIERS**

REVERSE VOLTAGE - 70 to 100 Volts FORWARD CURRENT - 1.0 Ampere

### **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

# A B A C

DO-41

### **MECHANICAL DATA**

Case: JEDEC DO-41 molded plastic
Polarity: Color band denotes cathode
Weight: 0.012 ounces, 0.34 grams

Mounting position : Any

	DO-41				
Dim.	Min.	Max.			
Α	25.4	-			
В	4.10	5.20			
С	0.71 Ø	0.86 Ø			
D	2.00 Ø	2.70 Ø			
All Dimensions in millimeter					

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

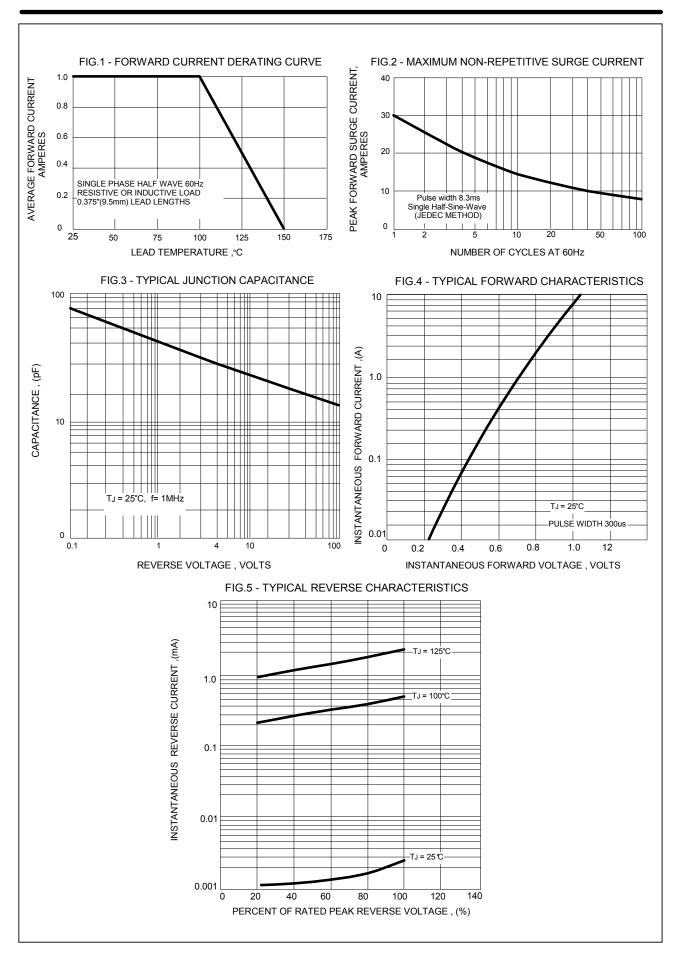
CHARACTERISTICS	SYMBOL	SB170	SB180	SB190	SB1100	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	70	80	90	100	V
Maximum RMS Voltage	VRMS	49	56	63	70	V
Maximum DC Blocking Voltage	VDC	70	80	90	100	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Lengths @TL=100°C	I(AV)	1.0				Α
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC Method)	IFSM	40				А
Maximum Forward IF=1.0A,TJ=25°C Voltage at IF=1.0A,TJ=100°C	VF	0.79 0.69				٧
Maximum DC Reverse Current at Rated DC Blocking Voltage @TJ=25℃ @TJ=100℃	IR	0.02 2.0				mA
Typical Junction Capacitance (Note 1) CJ 30			pF			
Typical Thermal Resistance (Note 2)	Rejl		5	0		°C/W
Operating Temperature Range	TJ	-55 to +150			°C	
Storage Temperature Range	Tstg		-55 to	+150		°C
NOTES: 1 Magazired at 1 0MHz and applied reverse voltage of 4 0V DC						

NOTES: 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2.Thermal Resistance Junction to Lead.

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