

# **SB320 THRU SB3B0**

### SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 100 Volts Forward Current - 3.0 Amperes

# 0.210 (5.3) 0.190 (4.8) DIA 0.052 (1.32) 0.048 (1.22) DIA

Dimensions in inches and (millimeters)

### **FEATURES**

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High forward surge current capability
- → High temperature soldering guaranteed: 250°C/10 seconds,0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

### **MECHANICAL DATA**

Case: JEDEC DO-201AD molded plastic body

**Terminals**: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

**Mounting Position**: Any

Weight: 0.04 ounce, 1.10 grams

### 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 current derate by 20%.

	SYMBOLS	SB 320	SB 330	SB3	40SB 350	SB 360	SB 370	SB 380	SB 390	SB 3B0	UNITS
Maximum repetitive peak reverse voltage	Vrrm	20	30	40	50	60	70	80	90	100	VOLTS
Maximum RMS voltage	VRMS	14	21	28	35	42	49	56	63	70	VOLTS
Maximum DC blocking voltage	VDC	20	30	40	50	60	70	80	90	100	VOLTS
Maximum average forward rectified current 0.375" (9.5mm) lead length(see fig.1)	l(AV)	3.0								Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	80.0								Amps	
Maximum instantaneous forward voltage at 3.0A	VF	0.55			0.	70	0.85			;	Volts
Maximum DC reverse current Ta=25°C at rated DC blocking voltage Ta=100°C	lr	0.5 20.0 10.0							mA		
Typical junction capacitance (NOTE 1)	Сл	250 160						pF			
Typical thermal resistance (NOTE 2)	Rqja	40.0								°C/W	
Operating junction temperature range	TJ,	-65 to +125 -65 to +150							°C		
Storage temperature range	Тѕтс	-65 to +150								°C	

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2.Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

## **RATINGS AND CHARACTERISTIC CURVES SB320 THRU SB3B0**













