

SB370 THRU SB3100

SCHOTTKY BARRIER RECTIFIER

VOLTAGE: 70 TO 100V CURRENT: 3.0A

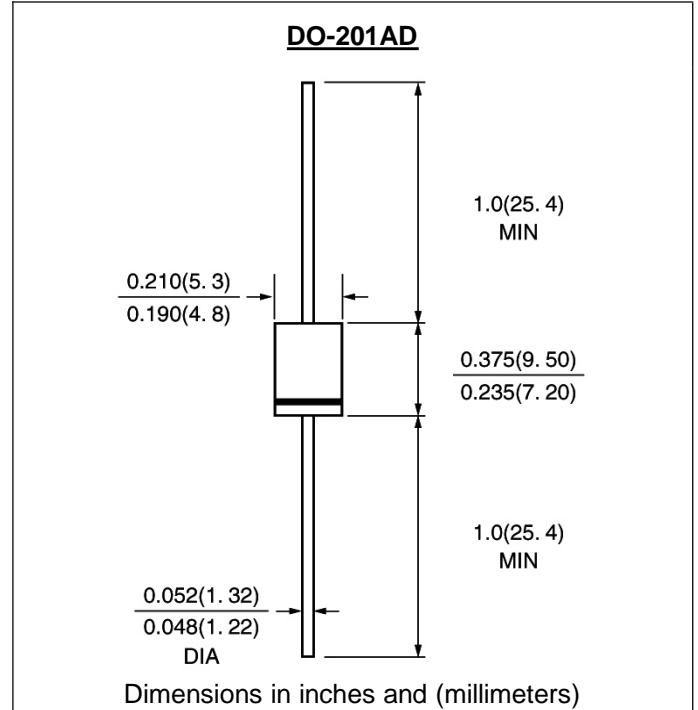


FEATURE

High current capability, Low forward voltage drop
 Low power loss, high efficiency
 High surge capability
 High temperature soldering guaranteed
 250°C /10sec/0.375" lead length at 5 lbs tension

MECHANICAL DATA

Terminal: Plated axial leads solderable per
 MIL-STD 202E, method 208C
 Case: Molded with UL-94 Class V-0 recognized Flame
 Retardant Epoxy
 Polarity: color band denotes cathode
 Mounting position: any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	SYMBOL	SB 370	SB 380	SB 390	SB 3100	units
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	70	80	90	100	V
Maximum RMS Voltage	V _{rms}	49	56	63	70	V
Maximum DC blocking Voltage	V _{dc}	70	80	90	100	V
Maximum Average Forward Rectified Current 3/8" lead length	I _{f(av)}	3.0				A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	80.0				A
Maximum Forward Voltage at 3.0A DC	V _f	0.79				V
Maximum DC Reverse Current at rated DC blocking voltage	I _r	500 20.0				uA mA
Typical Junction Capacitance (Note 1)	C _j	90				pF
Typical Thermal Resistance (Note 2)	R(ja)	25.0				°C /W
Storage Temperature Range	T _{stg}	-55 to +150				°C
Operating Temperature Range	T _j	-55 to +125				°C

Note:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
2. Thermal Resistance from Junction to Ambient at 0.5" lead length, vertical P.C. Board Mounted ¹

RATINGS AND CHARACTERISTIC CURVES SB370 THRU SB3100

