

## SB3150 THRU SB3200

### SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 150 to 200 Volts Forward Current - 3.0 Ampere

#### **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,

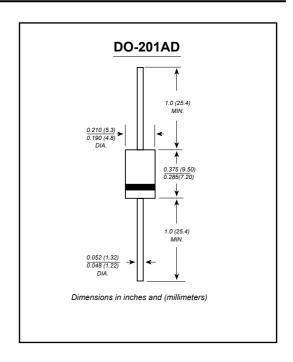
Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.04 ounce, 1.10 grams





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

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

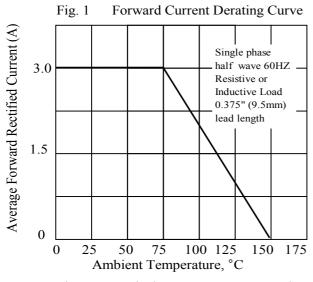
Characteristic	Symbol	SB3150	SB3200	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	150	200	V
RMS Reverse Voltage	VR(RMS)	105	140	٧
Average Rectified Output Current @Tc = 75°C	lo	3.0		Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	80		А
Forward Voltage @I <sub>F</sub> = 3.0A	VFM	0.92		V
Peak Reverse Current @T <sub>A</sub> = 25°C At Rated DC Blocking Voltage @T <sub>A</sub> = 100°C	IRM	1.0 5.0		mA
Typical Junction Capacitance (Note 1)	Cj	250		pF
Operating and Storage Temperature Range	Тj, Tsтg	-65 to +150		°C

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



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## RATINGS AND CHARACTERISTIC CURVES



Typical Instantaneous Forward Fig 3. Characteristics 100 Instantaneous Forward Current (A)  $TJ = 25^{\circ}C$ 10 Pulse width = 300µs 1% Duty Cycle 1.0 0.1 0.01 0.2 0.4 0.8 1.0 1.2 0.6 Instantaneous Forward Voltage (V)

