



SHANGHAI SUNRISE ELECTRONICS CO., LTD.

## SB320 THRU SB360

### SCHOTTKY BARRIER RECTIFIER

### TECHNICAL SPECIFICATION

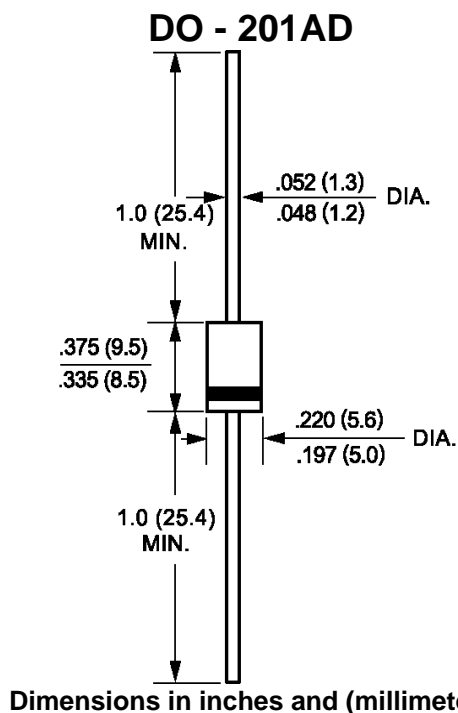
**VOLTAGE: 20 TO 60V CURRENT: 3.0A**

#### FEATURES

- Epitaxial construction for chip
- High current capability
- Low forward voltage drop
- Low power loss, high efficiency
- High surge capability
- High temperature soldering guaranteed:  
250°C/10sec/0.375" (9.5mm) 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-O  
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, for capacitive load, derate current by 20%)

RATINGS	SYMBOL	SB 320	SB 330	SB 340	SB 350	SB 360	UNITS
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	V
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	35	42	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	50	60	V
Maximum Average Forward Rectified Current (9.5mm lead length at T <sub>L</sub> =95°C)	I <sub>F(AV)</sub>	3.0					A
Peak Forward Surge Current (8.3ms single half sine-wave superimposed on rated load)	I <sub>FSM</sub>	80					A
Maximum Forward Voltage (at 3.0A DC)	V <sub>F</sub>	0.55			0.75		V
Maximum DC Reverse Current T <sub>a</sub> =25°C	I <sub>R</sub>	3.0					mA
at rated DC blocking voltage T <sub>a</sub> =100°C		30					mA
Typical Junction Capacitance (Note 1)	C <sub>J</sub>	220					pF
Typical Thermal Resistance (Note 2)	R <sub>θ(ja)</sub>	30					°C/W
Operating Temperature	T <sub>J</sub>	-65 to +125			-65 to +150		°C
Storage Temperature	T <sub>STG</sub>	-65 to +150					°C

Note:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0V<sub>dc</sub>

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

<http://www.sse-diode.com>