# SB32-B THRU SB36-B

### SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE:20 TO 60V

CURRENT: 3.0A

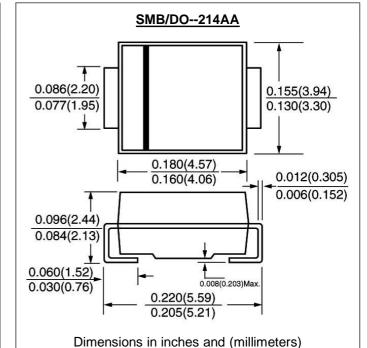


Plastic package has Underwriters Laboratory Flammability Classification 94V-0 For surface mounted applications Low profile package Built-in strain relief Low power loss, high efficiency High current capability, low forward voltage drop High surge capability For use in low voltage high frequency inverters, free wheeling, and polarity protection applications Guard ring for over voltage protection High temperature soldering guaranteed:  $250^{\circ}C$  /10 seconds at terminals

#### MECHANICAL DATA

Case: JEDEC DO-214AA molded plastic body Terminals: Solder plated, solder able per MIL-STD-750, Method 2026 Polarity: Color band denotes cathode end





## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25<sup>o</sup>C, unless otherwise stated, for capacitive load, derate current by 20%)

	SYMBOL	SB 32-B	SB 33-B	SB 34-B	SB 35-B	SB 36-B	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	20	30	40	50	60	V
Maximum RMS Voltage	Vrms	14	21	28	35	42	V
Maximum DC blocking Voltage	Vdc	20	30	40	50	60	V
Maximum Average Forward Rectified Current	lf(av)	3.0					A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	lfsm	100.0					A
Maximum Forward Voltage atrated Forward current (Note	1) Vf	0.5			0.75		V
Maximum DC Reverse Current Ta =25°C	, Ir	0.5					
at rated DC blocking voltage Ta =100°C	>   "		20.0		10.0		– mA
Typical Thermal Resistance (Note 2)	R(ja)	55.0					°C /W
Storage and Operating Temperature Range	Tstg	-55 to +150					°C

NOTE:

(1) Pulse test: 300µs pulse width, 1% duty cycle

(2) P.C.B. mounted with 0.2 x 0.2 inches (5.0 x 5.0 mm) copper pad areas<sup>1</sup>

#### RATINGS AND CHARACTERISTIC CURVES SB32-B THRU SB36-B

