

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE:20 TO 60V

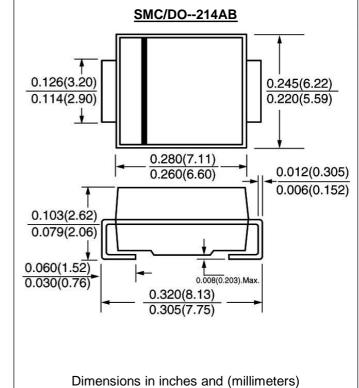
CURRENT: 3.0A

FEATURE

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 Guarding for over voltage protection High temperature soldering guaranteed: 250°C /10 seconds at terminals

MECHANICAL DATA

Case: JEDEC DO-214AB molded plastic body Terminals: Solder plated, solderable per MIL-STD-750, Method 2026 Polarity: Color band denotes cathode end Weight: 0.007 ounce, 0.25gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25^oC, unless otherwise stated, for capacitive load, derate current by 20%)

	SYMBOL	SB	SB	SB	SB	SB	units
		32	33	34	35	36	
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 3/8'lead length at T _L =105°C	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 at rated Forward current (Note 1)	Vf		0.5		0.1	75	V
Maximum DC Reverse Current Ta =25°C	lr -	0.5					mA
at rated DC blocking voltage Ta =100°C			20.0		10	0.0	7
Typical Thermal Resistance (Note 2)	R(ja)	55.0					°C /\
Storage and Operating Temperature Range	Tstg		-	50 to +150			°C

NOTE:

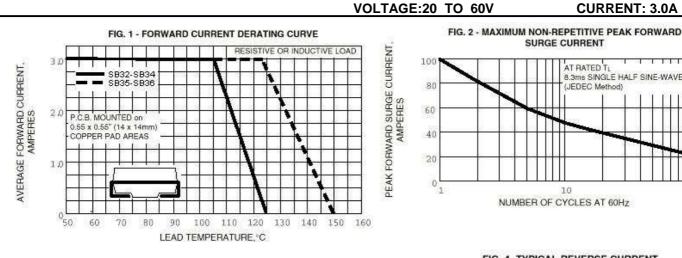
(1) Pulse test: 300μ s pulse width, 1% duty cycle

(2) P.C.B. mounted with 0.2 x 0.2 inches (5.0 x 5.0 mm) copper pad areas¹



SB32 THRU SB36

SURFACE MOUNT SCHOTTKY **BARRIER RECTIFIER** CURRENT: 3.0A



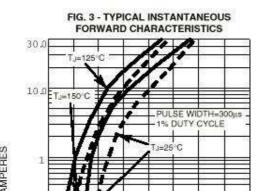


FIG. 4- TYPICAL REVERSE CURRENT CHARACTERISTICS

10 NUMBER OF CYCLES AT 60Hz

SURGE CURRENT

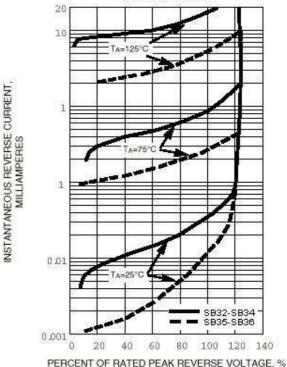
AT RATED TI

8.3ms SINGLE HALF

(JEDEC Method)

SINE-WAVE

100



INSTANT ANEOUS FORWARD CURRENT AMPERES 0.1 SB32-SB34 SB35-SB36 0.01 0 0.2 0.4 6.0 0.8 1.0 12 14 1.5 INSTANTANEOUS FORWARD VOLTAGE, VOLTS FIG. 5 - TYPICAL JUNCTION CAPACITANCE 1,000 1 2 2 2 3 TJ=25 ℃ i=1.0 MHz JUNCTION CAPACITANCE, pF

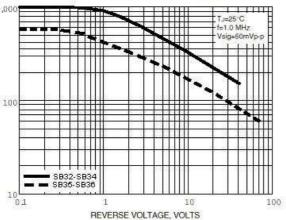


FIG. 6 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

