SB22 THRU SB26

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE:20 TO 60V CURRENT: 2.0A



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:

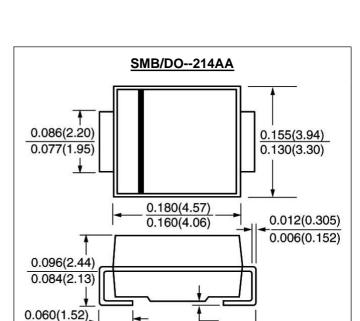
250°C /10 seconds at terminals

MECHANICAL DATA

Case: JEDEC DO-214AA molded plastic body

Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end Weight: 0.003 ounce, 0.093 gram



Dimensions in inches and (millimeters)

0.220(5.59)

0.205(5.21)

0.008(0.203)Ma:

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

0.030(0.76)

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

		SYMBOL	SB 22	SB 23	SB 24	SB 25	SB 26	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 3/8"lead length at T _L =105°C		If(av)	2.0					А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load		Ifsm	50.0					А
Maximum Forward Voltage at rated Forward current	(Note 1)	Vf	0.5 0.7).7	V		
Maximum DC Reverse Current Ta =25°C		lr lr	0.5					mA
at rated DC blocking voltage	Ta =100°C	"		20.0			10.0	
Typical Thermal Resistance	(Note 2)	Rth(ja)	75.0			°C /W		
Operating junction temperature range		TJ	-55 to +125		-55 to +150		°C	
Storage 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 0.2inches(5.0 x 5.0mm) copper pad areas

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RATINGS AND CHARACTERISTIC CURVES SB22 THRU SB26

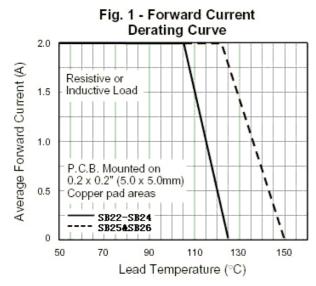


Fig. 3 - Typical Instantaneous Forward Characteristics

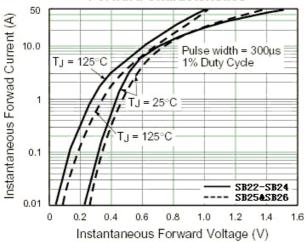


Fig. 5 - Typical Junction Capacitance

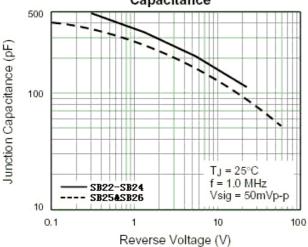


Fig. 2 - Maximum Non-repetitive Surge Current

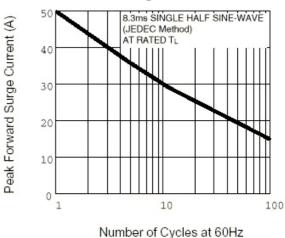
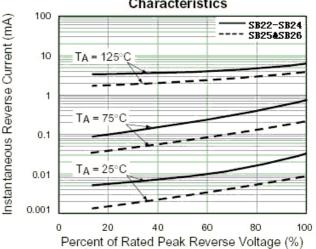


Fig. 4 - Typical Reverse Current Characteristics



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