

SB22-A THRU SB26-A

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE:20 TO 60V

CURRENT: 2.0A



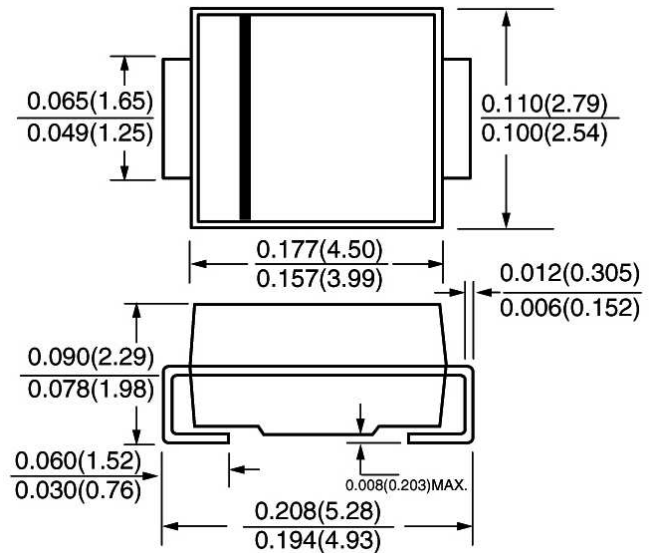
FEATURE

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

MECHANICAL DATA

Case: JEDEC SMA/DO-214AC molded plastic body
Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
Polarity: Color band denotes cathode end
Weight: 0.002 ounce, 0.064 gram

SMA/DO--214AC



Dimensions in inches and (millimeters)

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%)

	SYMBOL	SB 22-A	SB 23-A	SB 24-A	SB 25-A	SB 26-A	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 =100°C	If(av)	2.0					A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	50.0					A
Maximum Forward Voltage at rated Forward current (Note 1)	Vf	0.5			0.7		V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =100°C	Ir	0.5					mA
		20.0			10.0		
Typical Thermal Resistance (Note 2)	Rth(ja)	75.0					°C /W
Operating junction temperature range	Tj	-55 to +125					°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

FIG.1 - FORWARD CURRENT DERATING CURVE

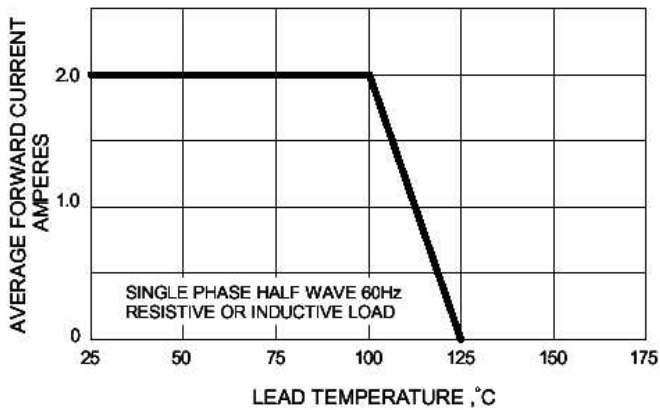


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

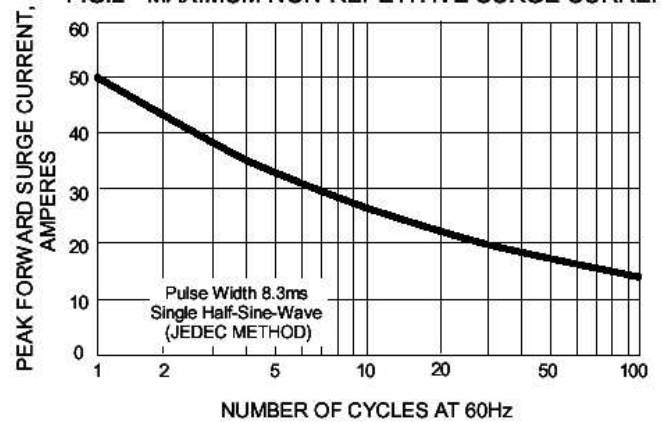


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

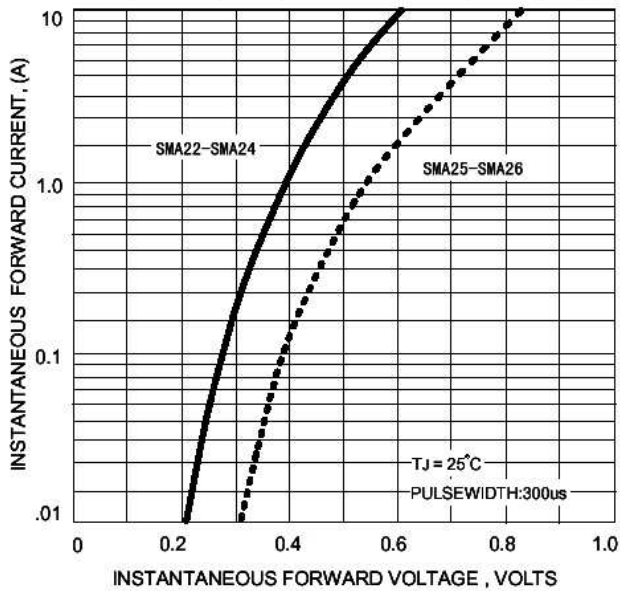


FIG.4 - TYPICAL JUNCTION CAPACITANCE

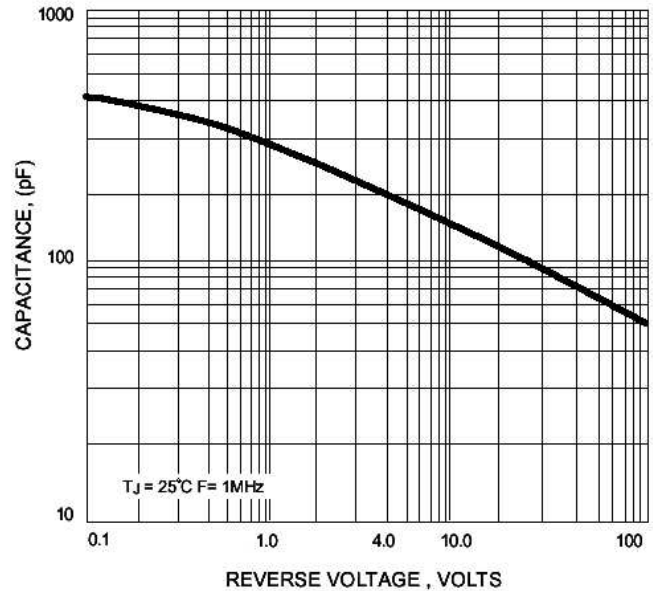


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

