

SB220 THRU SB260

SCHOTTKY BARRIER RECTIFIER

VOLTAGE: 20 TO 60V CURRENT: 2.0A



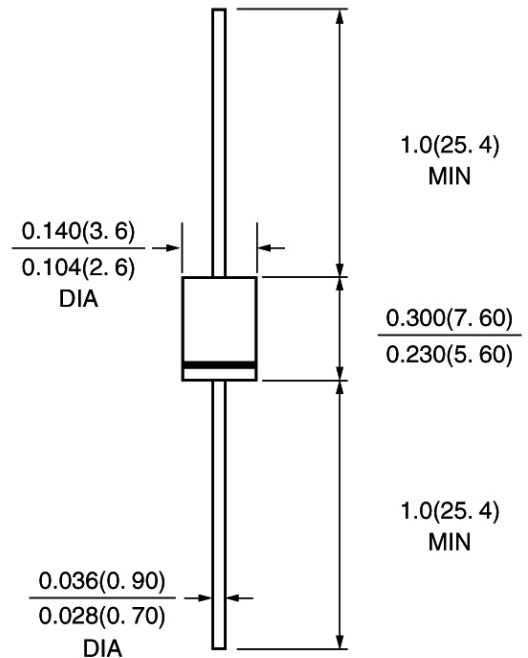
FEATURE

High current capability, Low forward voltage drop
 Low power loss, high efficiency
 High surge capability
 High temperature soldering guaranteed
 250°C /10sec/0.375" 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-0 recognized Flame
 Retardant Epoxy
 Polarity: color band denotes cathode
 Mounting position: any

DO-15\ DO-204AC



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	SYMBOL	SB 220	SB 230	SB 240	SB 250	SB 260	units
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	20	30	40	50	60	V
Maximum RMS Voltage	V _{rms}	14	21	28	35	42	V
Maximum DC blocking Voltage	V _{dc}	20	30	40	50	60	V
Maximum Average Forward Rectified Current 0.375" lead length TL=75°C	I _{f(av)}	2.0					A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	50.0					A
Maximum Forward Voltage at 2.0A DC(Note 1)	V _f	0.55			0.7		V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =100°C	I _r	500 10.0					µA mA
Typical Thermal Resistance (Note 2)	R _{th(ja)}	60.0					°C /W
Storage and Operating Junction Temperature	T _j	-55 to +125					°C

Note:

1. Pulse test :300µS pulse width ,1% duty cycle.
2. Thermal Resistance from Junction to Ambient at 0.5" lead length, vertical P.C. Board Mounted ¹

FIG.1-FORWARD CURRENT DERATING CURVE

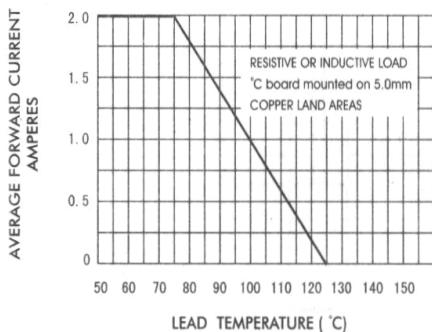


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

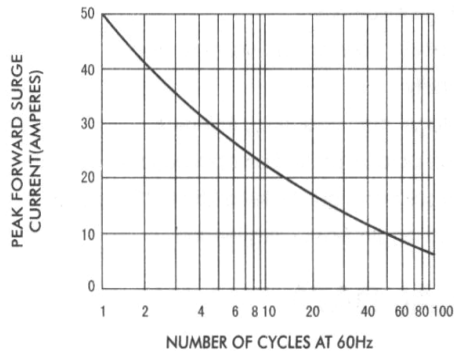


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

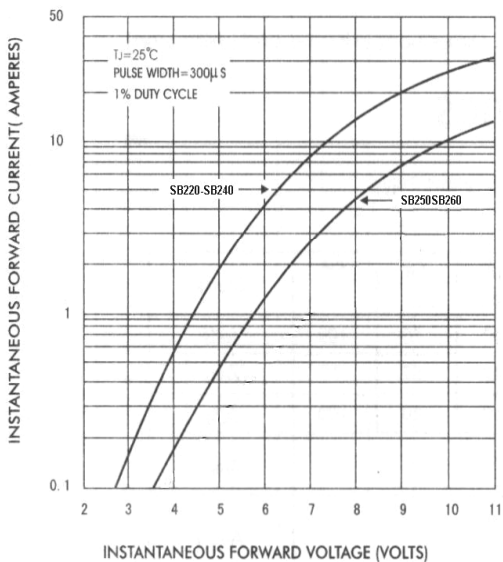


FIG.4-TYPICAL REVERSE CHARACTERISTICS

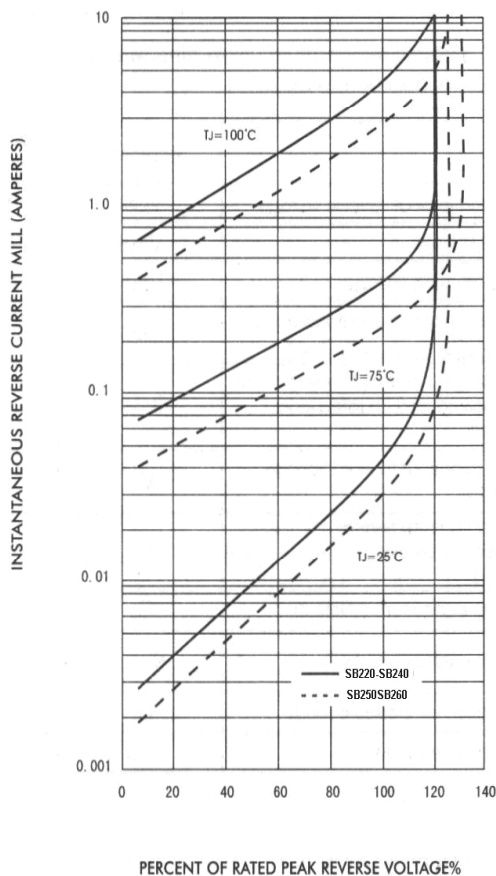


FIG.5-TYPICAL JUNCTION CAPACITANCE

