

SB10EQ

SCHOTTKY BARRIER RECTIFIER

VOLTAGE: 100V

CURRENT: 1.0A

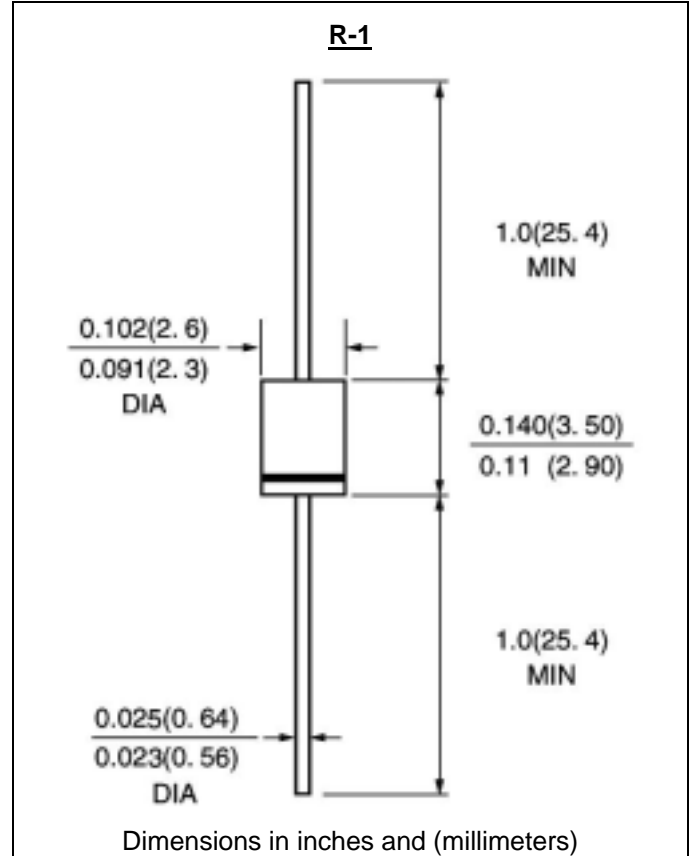


FEATURE

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



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOL	SB10EQ	units
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	100	V
Maximum RMS Voltage	V _{rms}	70	V
Maximum DC blocking Voltage	V _{dc}	100	V
Maximum Average Forward Rectified Current Without Fin or P.C.B Ta=25	I _{f(av)}	1.0	A
Peak Forward Surge Current 10ms single half sine-wave superimposed	I _{fsm}	40.0	A
Maximum Forward Voltage at 1.0A DC(Note 1)	V _f	0.85	V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =100°C	I _r	0.5 10.0	mA mA
Typical Thermal Resistance (Note 2)	R (ja)	140.0	°C /W
Storage and Operating Junction Temperature	T _j	-40 to +150	°C

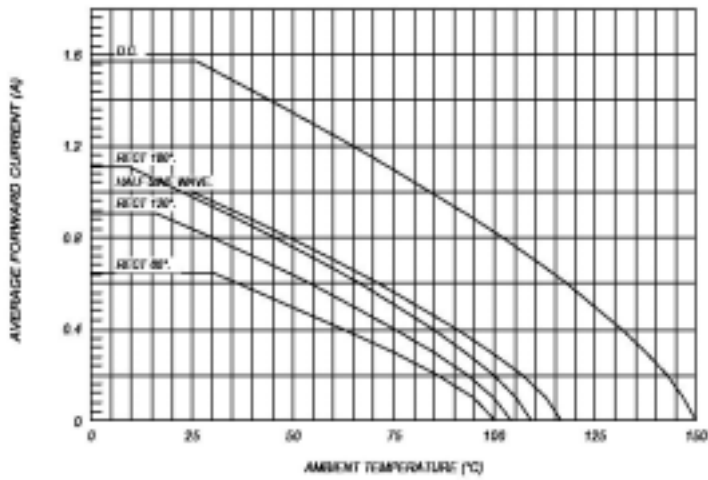
Note:

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

RATINGS AND CHARACTERISTIC CURVES SB10EQ

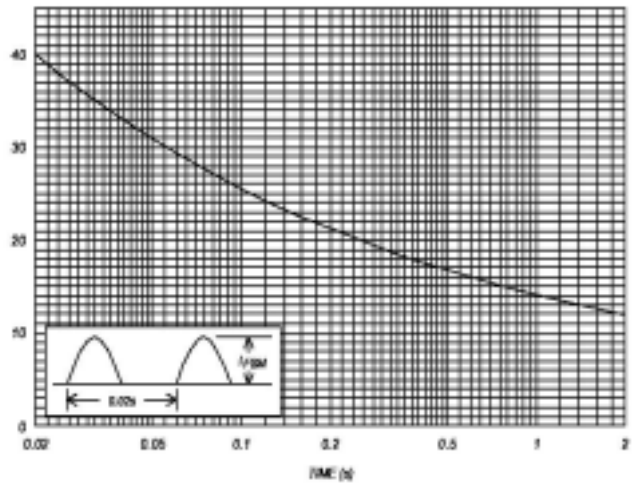
AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

Without Fan or P.C. Board, $V_{as} = 40V$

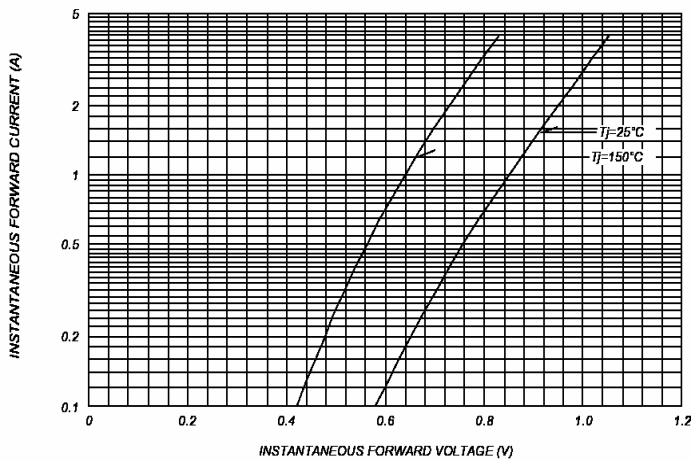


SURGE CURRENT RATINGS

f: 50Hz, Half Sine Wave, Non-Repetitive, No Load

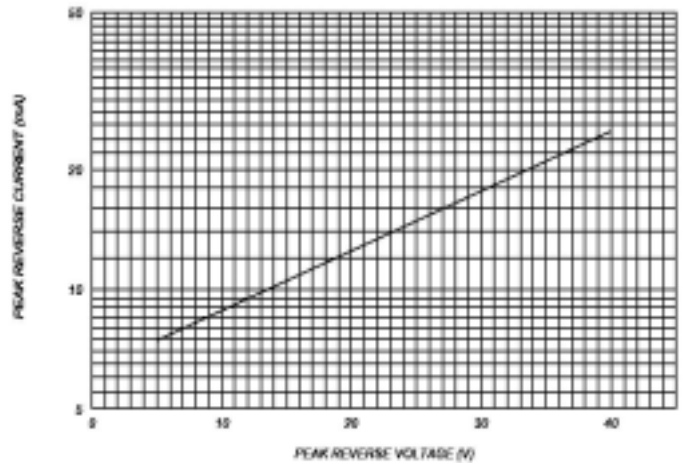


FORWARD CURRENT VS. VOLTAGE



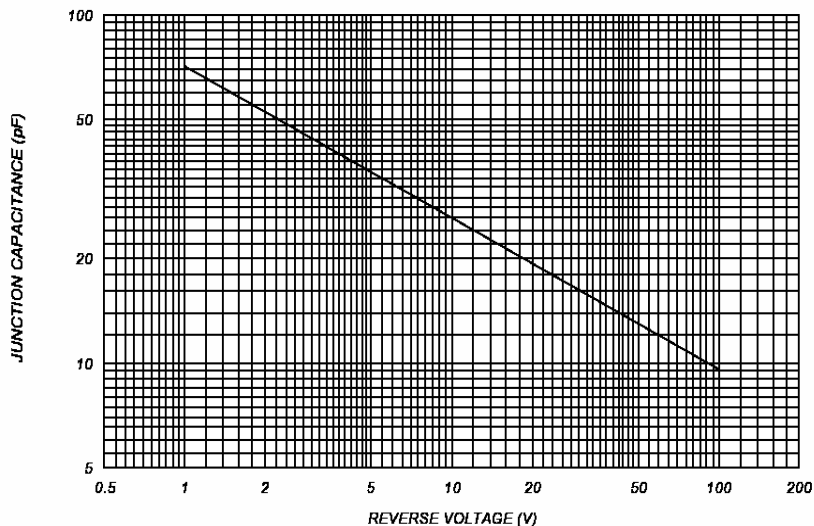
PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

Tj: 150 °C



JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

Tj = 25° C, Vm = 20m Vrms, f = 100kHz, Typical Value



- Marking :
SB10EQ

