SB1060CT

SCHOTTKY BARRIER RECTIFIER

VOLTAGE: 60V **CURRENT: 10.0A**

GULF SEMI

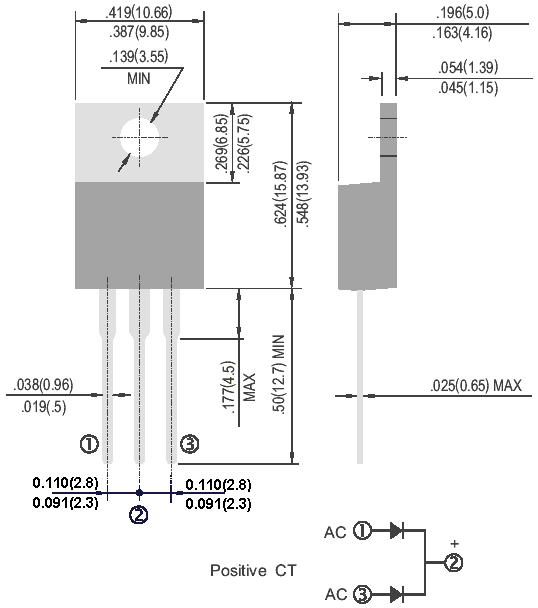
FEATURE

High current capability, Low forward voltage drop
Low power loss, high efficiency
High surge capability
High temperature soldering guaranteed
250℃ /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: Common Cathode
Mounting position: any

TO-220AB



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOL	SB1060CT	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	60	V
Maximum RMS Voltage	Vrms	42	V
Maximum DC blocking Voltage	Vdc	60	V
Maximum Average Forward Rectified Current at Tc=100℃	If(av)	10	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	150	A
Maximum Forward Voltage at 5A	Vf	0.75	V
Maximum DC Reverse Current Ta =25℃ at rated DC blocking voltage Ta =100℃	Ir	0.5 50	mA
Typical Thermal Resistance (Note 1)	Rth(jc)	3.0	℃/W
Operating Junctionand Storage Temperature Range	Tj, Tstg	-50 to +125	℃

Note:
1.Thermal Resistance from Junction to Case

Fig.1- FORWARD CURRENT DERATING CURVE

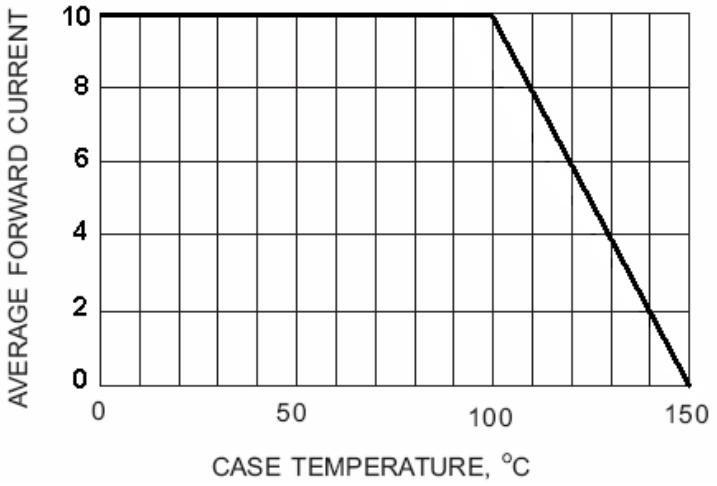


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER LEG

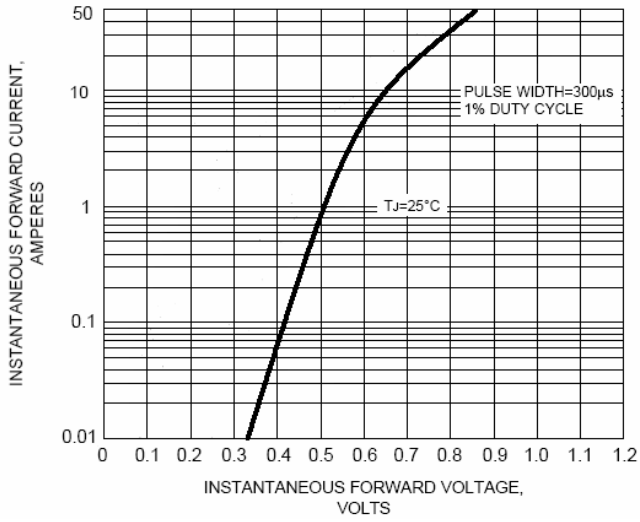


Fig.3- TYPICAL REVERSE CHARACTERISTIC

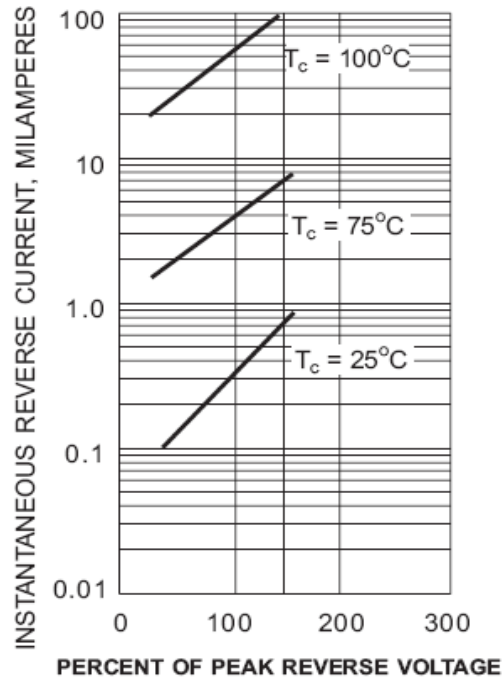


Fig.4- MAXIMUM NON-REPETITIVE SURGE CURRENT

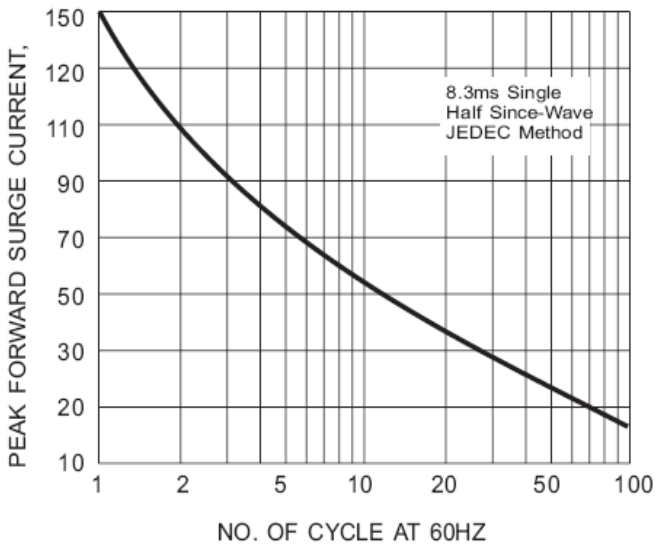


Fig.5- TYPICAL JUNCTION CAPACITANCE