# **SB1040CT**

# SCHOTTKY BARRIER RECTIFIER

VOLTAGE: 40V CURRENT: 10.0A



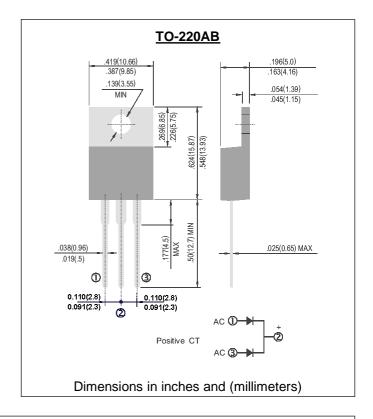
### **FEATURE**

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: Leads solderable per MIL-STD-750, method 2026 Case: Molded with UL-94 Class V-0 recognized Flame

Retardant Epoxy Polarity: Common Cathode Mounting position: any



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

		SYMBOL	SB1040CT	units
Maximum Recurrent Peak Reverse Voltage		Vrrm	40	V
Maximum RMS Voltage		Vrms	28	V
Maximum DC blocking Voltage		Vdc	40	V
Maximum Average Forward Rectified Current at Tc=135℃		If(av)	10	А
Peak Forward Surge Current 8.3ms single half sine- wave superimposed on rated load per leg		lfsm	150	А
Maximum Forward Voltage per leg and 25°C at 5A		Vf	0.53	V
Maximum Reverse Current per leg at working peak reverse voltage	Tj =25℃ Tj =125℃	lr	0.1 15.0	mA
Typical Thermal Resistance per leg	(Note 1)	Rth(jc)	3.0	°C/W
Operating Junction and Storage Temperature Ramge		Tj, Tstg	-65 to +150	℃

Note:

1.Thermal Resistance from Junction to Case

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#### RATINGS AND CHARACTERISTIC CURVES SB1040CT

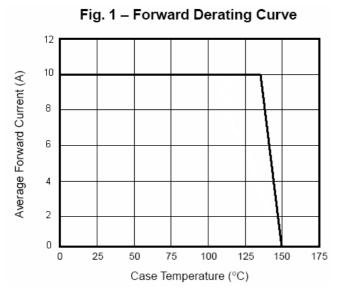


Figure 3. Typical Instantaneous Forward Characteristics Per Diode

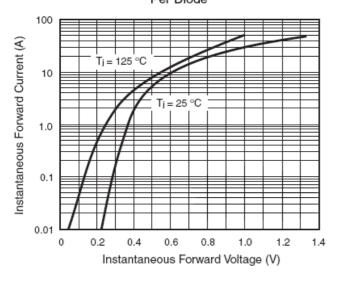


Fig. 5 - Typical Junction Capacitance Per Leg

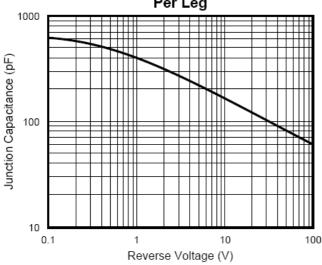


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current Per Leg

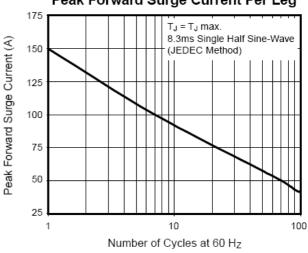
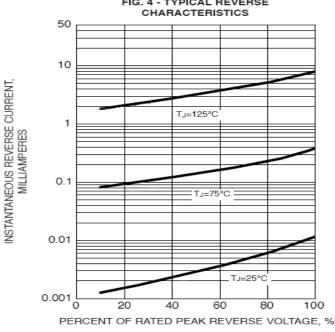


FIG. 4 - TYPICAL REVERSE



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