

SB10100CT	
SCHOTTKY BARRIER RECTIFIER	
VOLTAGE: 100V	CURRENT: 10.0A

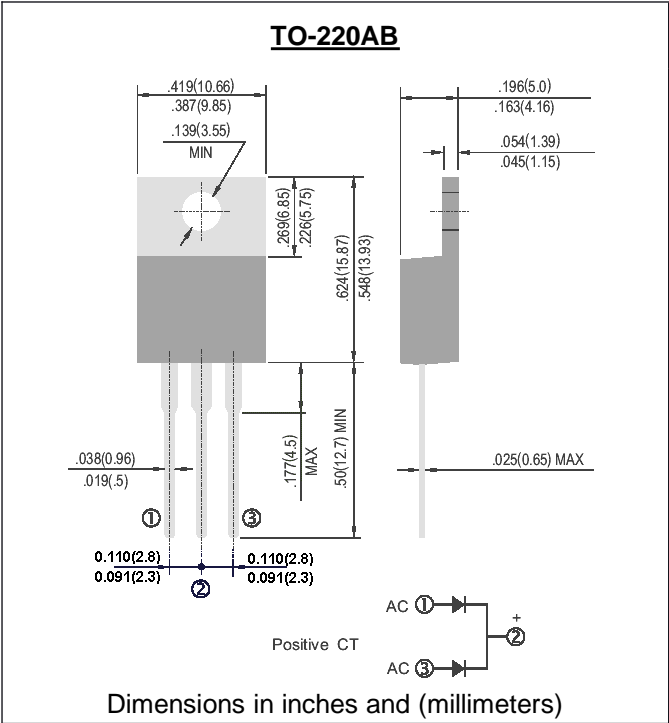


FEATURE

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: Common 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	SB10100CT	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 at T _c =105°C	I _{f(av)}	10	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load per leg	I _{fsm}	150	A
Maximum Forward Voltage per leg and 25°C at 5A	V _f	0.76	V
Maximum Reverse Current per leg at working peak reverse voltage	I _r	50 4.5	μ A mA
Typical Thermal Resistance per leg (Note 1)	R ^θ (jc)	2.2	°C/W
Operating Junction and Storage Temperature Range	T _j T _{stg}	-65 to +175	°C

Note:
 1. Thermal Resistance from Junction to Case

Fig. 1 – Forward Derating Curve Per Leg

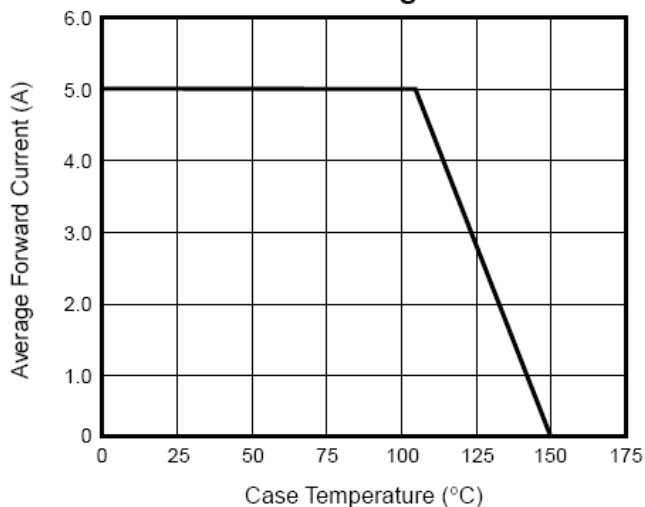


Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current Per Leg

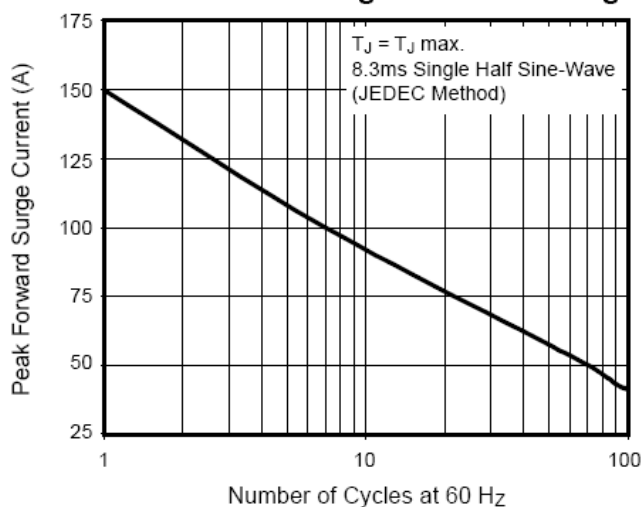


Fig. 3 – Typical Instantaneous Forward Characteristics Per Leg

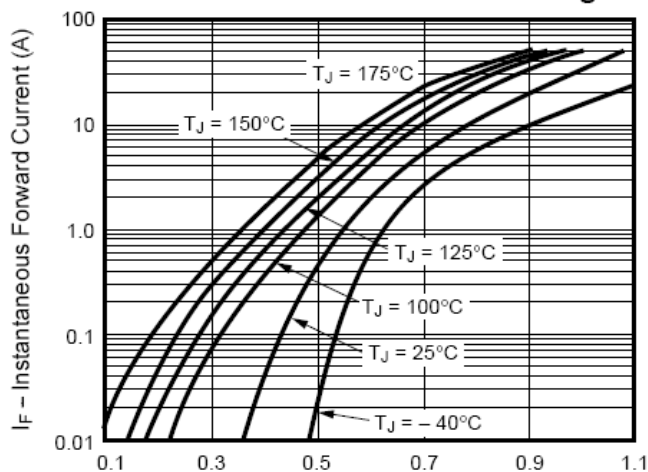


Fig. 4 – Typical Reverse Characteristics Per Leg

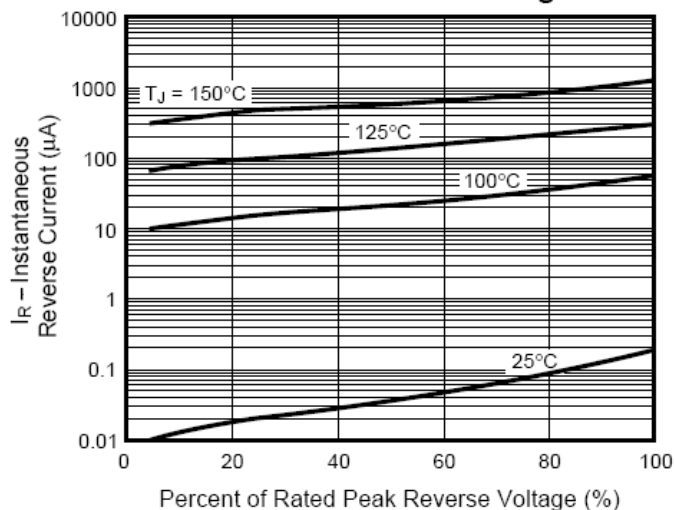


Fig. 5 – Typical Junction Capacitance Per Leg

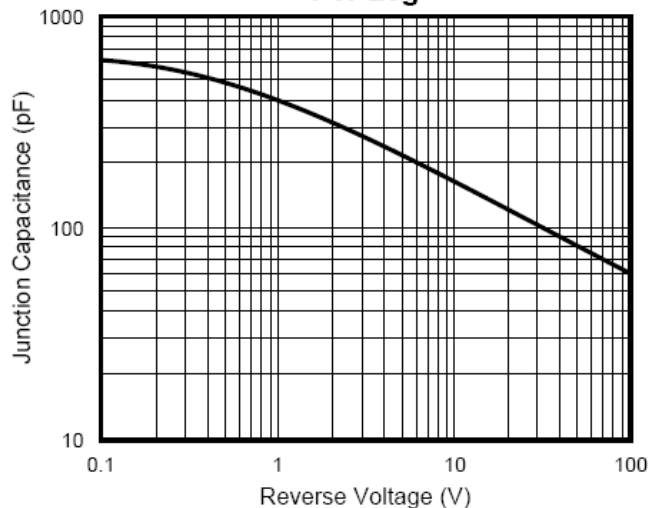


Fig. 6 – Typical Transient Thermal Impedance Per Leg

