

SB20100FCT

SCHOTTKY BARRIER RECTIFIER

VOLTAGE: 100V

CURRENT: 20.0A

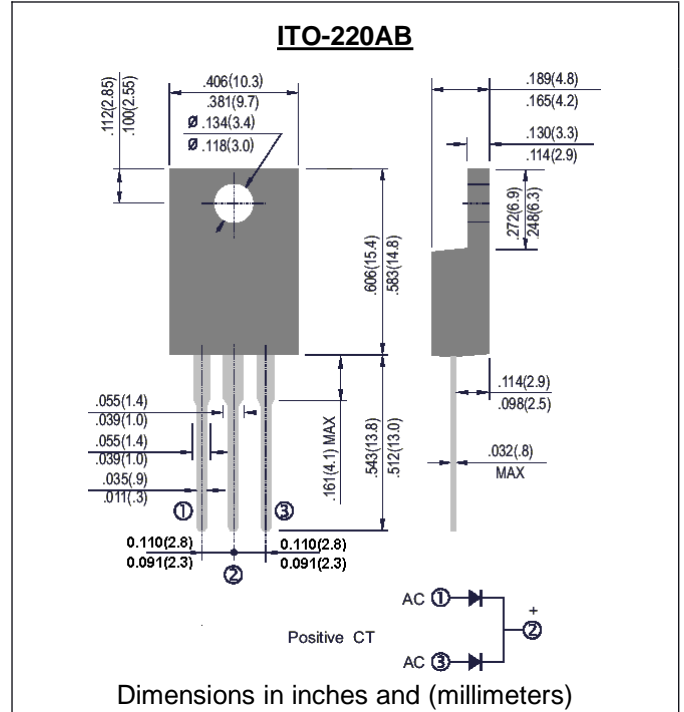


FEATURE

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	SB20100FCT	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 =133°C	I _{f(av)}	20	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	150	A
Maximum Forward Voltage at 10A	V _f	0.80	V
Maximum DC Reverse Current at rated DC blocking voltage	I _r	500 6.0	μ A mA
Typical Thermal Resistance (Note 1)	R _{th(jc)}	3.5	°C/W
Operating Junction and Storage Temperature Range	T _j T _{stg}	-65 to +150	°C

Note:
 1. Thermal Resistance from Junction to Case

RATINGS AND CHARACTERISTIC CURVES SB20100FCT

Fig. 1 - Forward Current Derating Curve

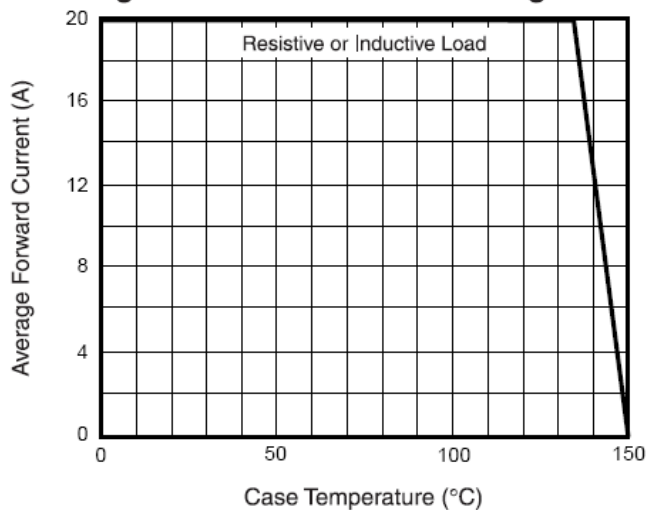


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

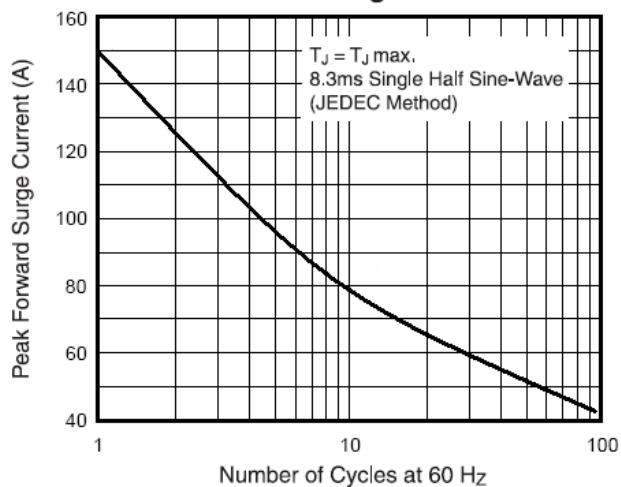


Fig. 3 - Typical Instantaneous Forward Characteristics

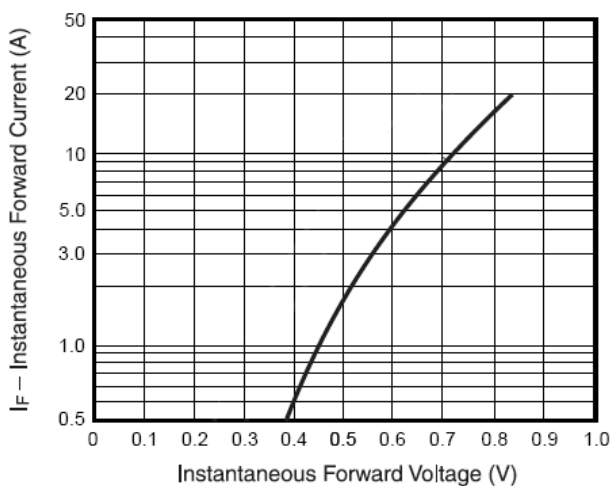


Fig. 4 - Typical Reverse Characteristics

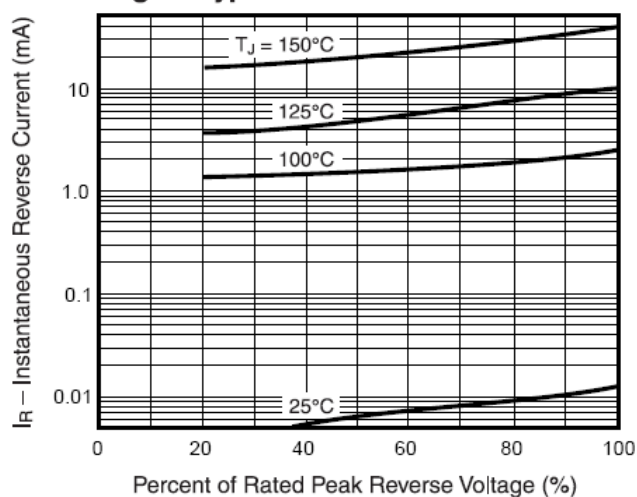


Fig. 5 - Typical Transient Thermal Impedance

