

SB10150FCT

SCHOTTKY BARRIER RECTIFIER

VOLTAGE: 150V

CURRENT: 10.0A

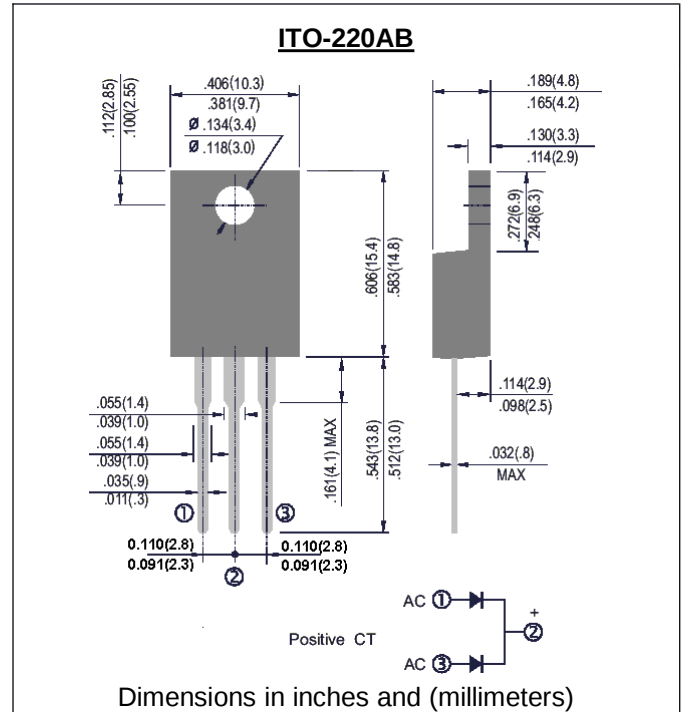


FEATURE

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 Insert 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°C, unless otherwise stated)

	SYMBOL	SB10150FCT	units
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	150	V
Maximum RMS Voltage	V _{rms}	105	V
Maximum DC blocking Voltage	V _{dc}	150	V
Maximum Average Forward Rectified Current	I _{f(av)}	10	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	160	A
Maximum Forward Voltage at 5A	V _f	0.88	V
Maximum DC Reverse Current at rated DC blocking voltage Ta =25°C Ta =110°C	I _r	50 1.0	μ A mA
Typical Thermal Resistance (Note 1)	R _{th(jc)}	4.5	°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 (Total)

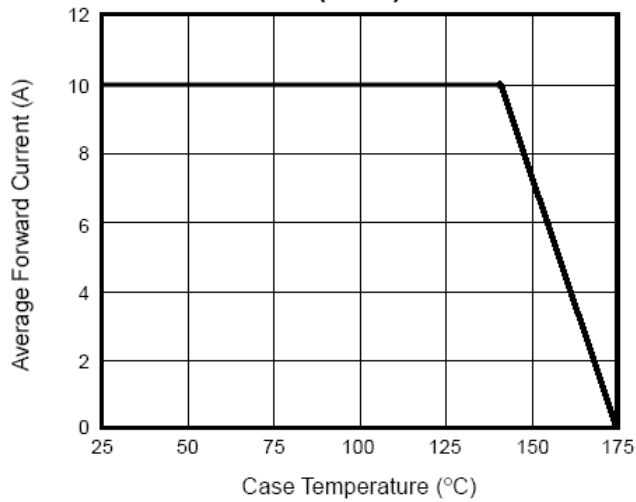


Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current Per Leg

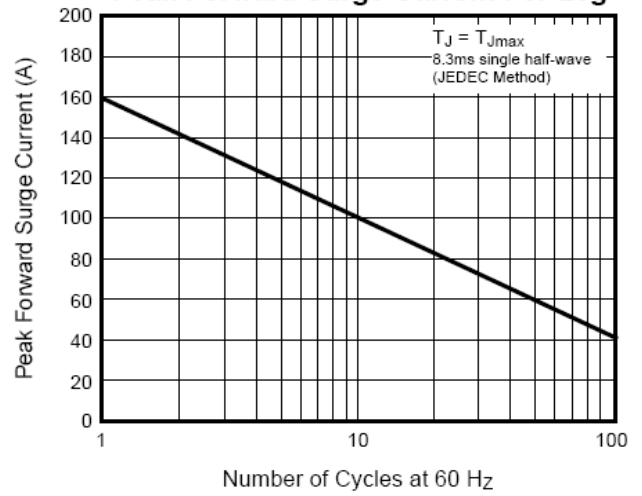


Fig. 3 – Typical Instantaneous Forward Characteristics Per Leg

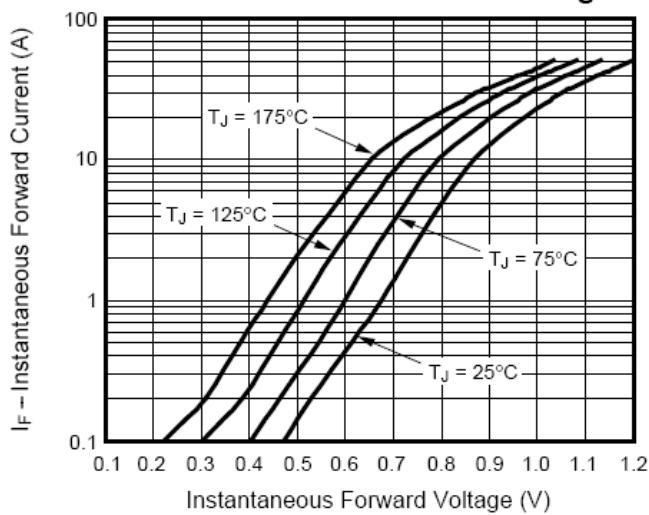


Fig. 4 – Typical Reverse Characteristics Per Leg

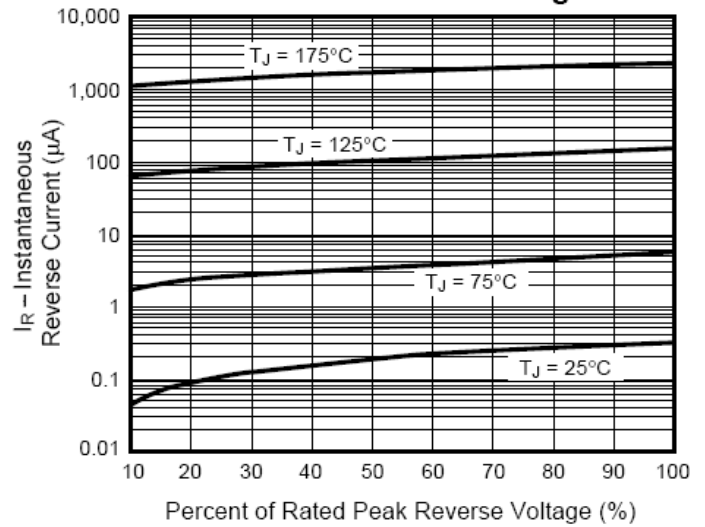


Fig. 6 – Typical Transient Thermal Impedance Per Leg

