

SB10100FCT

SCHOTTKY BARRIER RECTIFIER

VOLTAGE: 100V

CURRENT: 10.0A

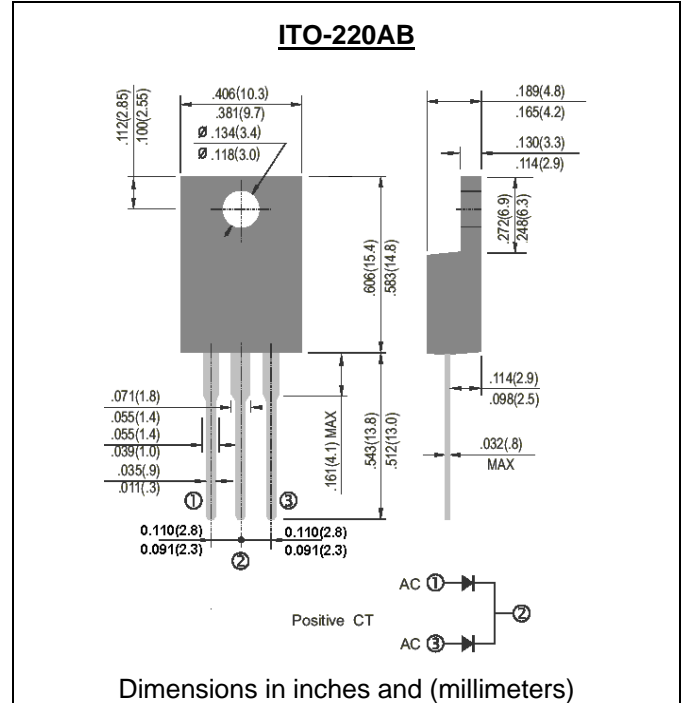


FEATURE

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

Case: JEDEC ITO-220 molded plastic body
 Terminals: Plated leads, solderable per MIL-STD-750,
 Method 2026
 Polarity: Color band denotes cathode end
 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	SB10100FCT	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	I _{f(av)}	10	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	150	A
Maximum Forward Voltage at 5A	V _f	0.76	V
Maximum DC Reverse Current at rated DC blocking voltage	I _r	50 4.5	μ A mA
Typical Thermal Resistance (Note 1)	R _{th(jc)}	4.2	°C/W
Operating Junction and Storage Temperature Range	T _j T _{stg}	-65 to +175	°C

Note:

1. Thermal Resistance from Junction to Case

RATINGS AND CHARACTERISTIC CURVES SB10100FCT

Fig. 1 – Forward Derating Curve

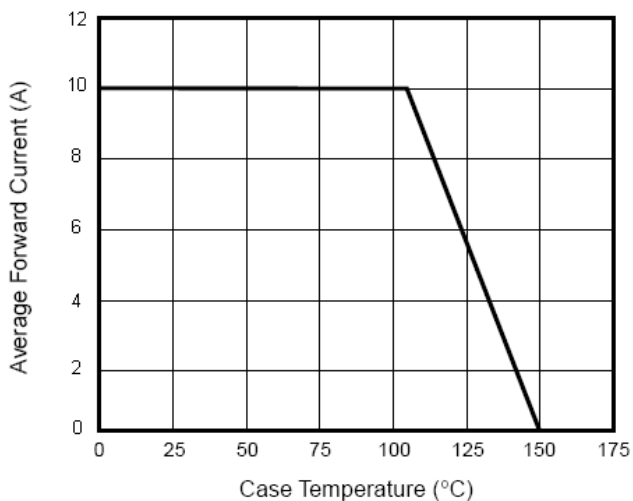


Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current Per Leg

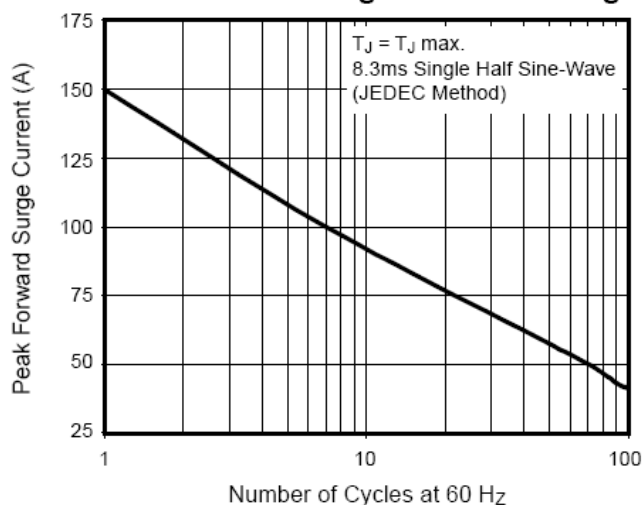


Fig. 3 – Typical Instantaneous Forward Characteristics Per Leg

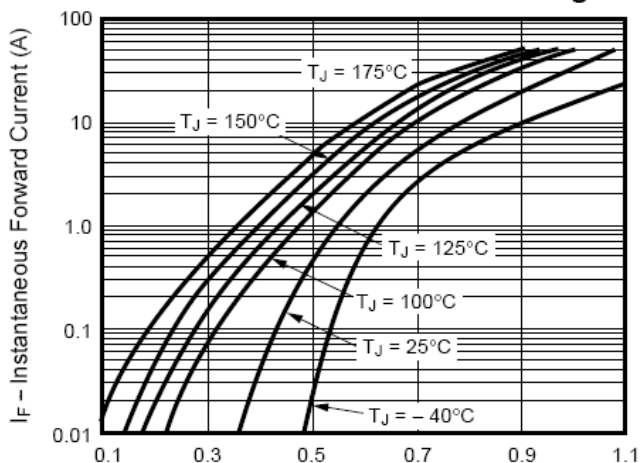


Fig. 4 – Typical Reverse Characteristics Per Leg

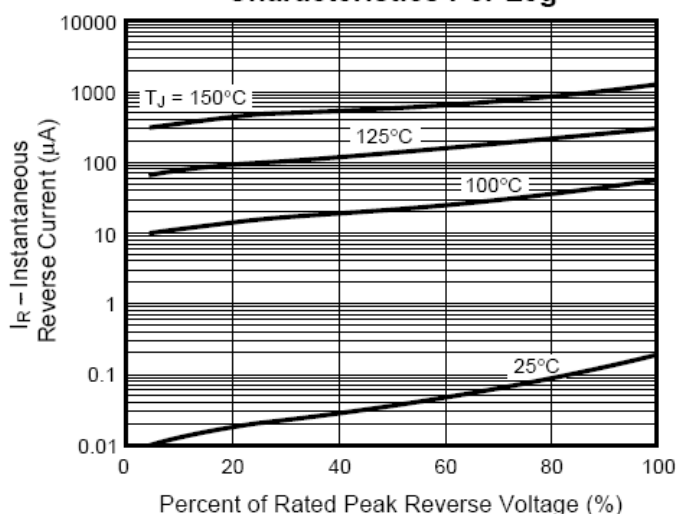


Fig. 5 – Typical Transient Thermal Impedance Per Leg

