

SB20150FCT

SCHOTTKY BARRIER RECTIFIER

VOLTAGE: 150V

CURRENT: 20.0A

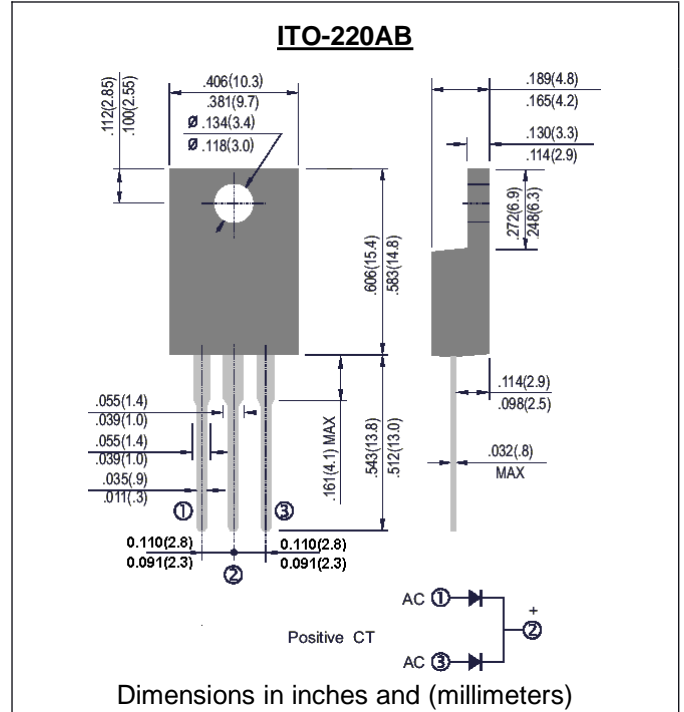


FEATURE

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	SB20150FCT	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)}	20	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	200	A
Maximum Forward Voltage at 10A	V _f	0.90	V
Maximum DC Reverse Current at rated DC blocking voltage	I _r	50 1.0	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 SB20150FCT

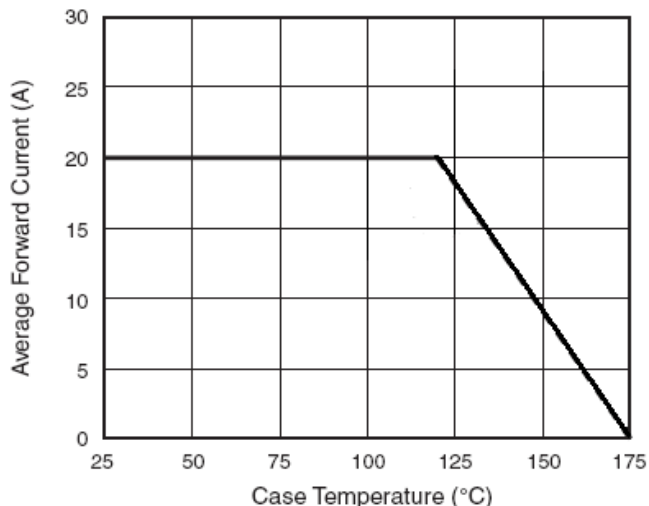


Figure 1. Forward Derating Curve (Total)

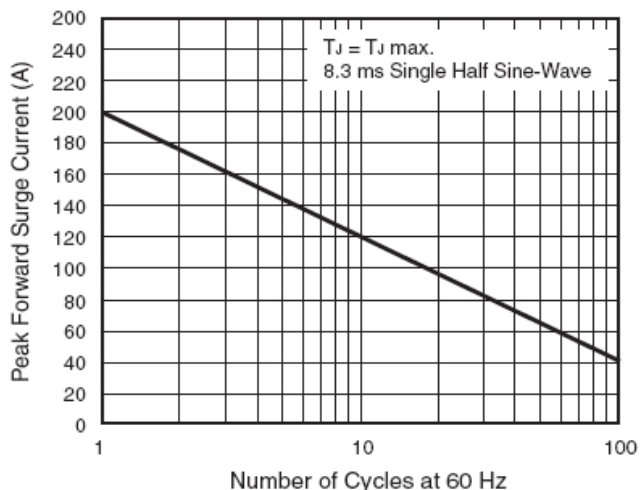


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Diode

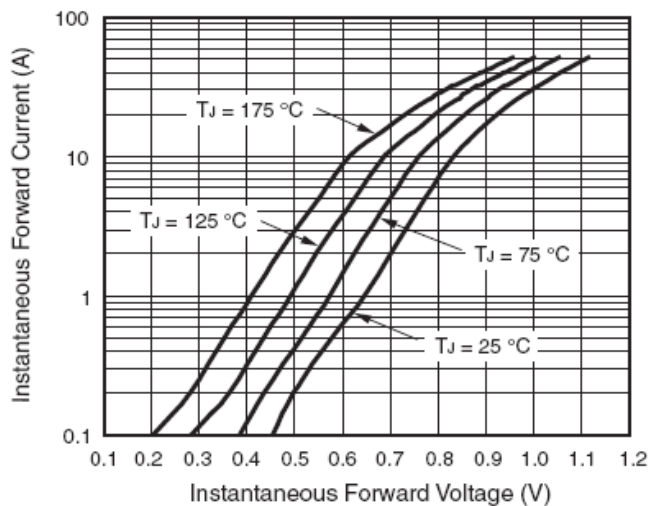


Figure 3. Typical Instantaneous Forward Characteristics Per Diode

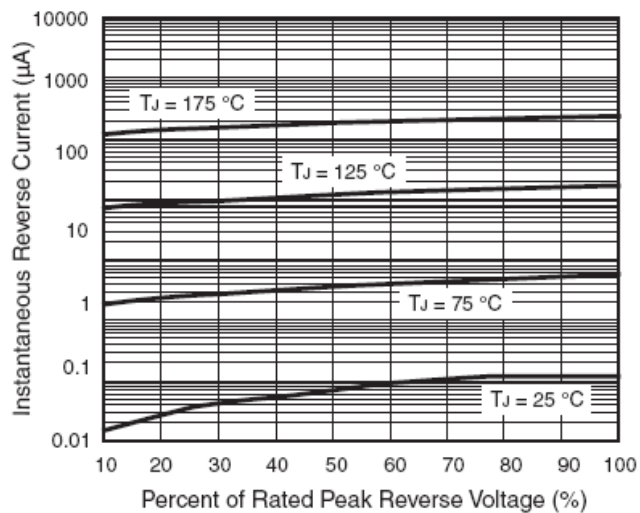


Figure 4. Typical Reverse Characteristics Per Diode

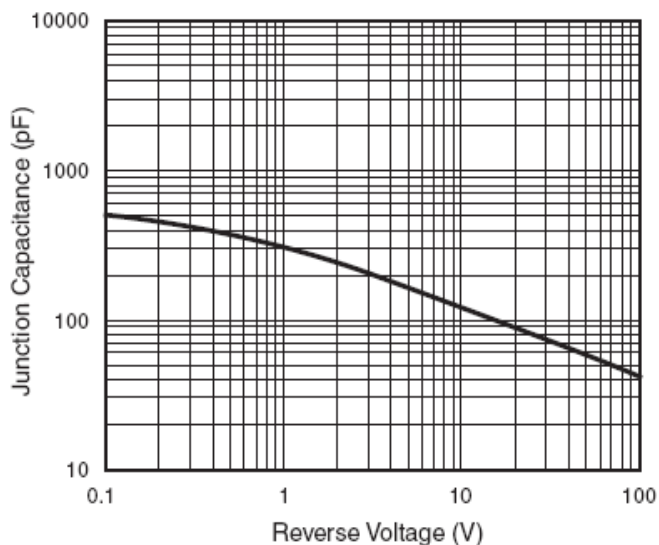


Figure 5. Typical Junction Capacitance Per Diode

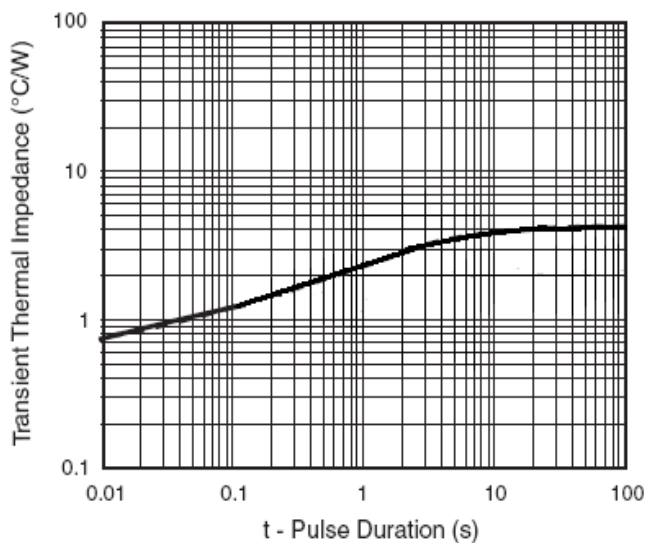


Figure 6. Typical Transient Thermal Impedance Per Diode