

SB2060FCT

SCHOTTKY BARRIER RECTIFIER

VOLTAGE: 60V

CURRENT: 20.0A

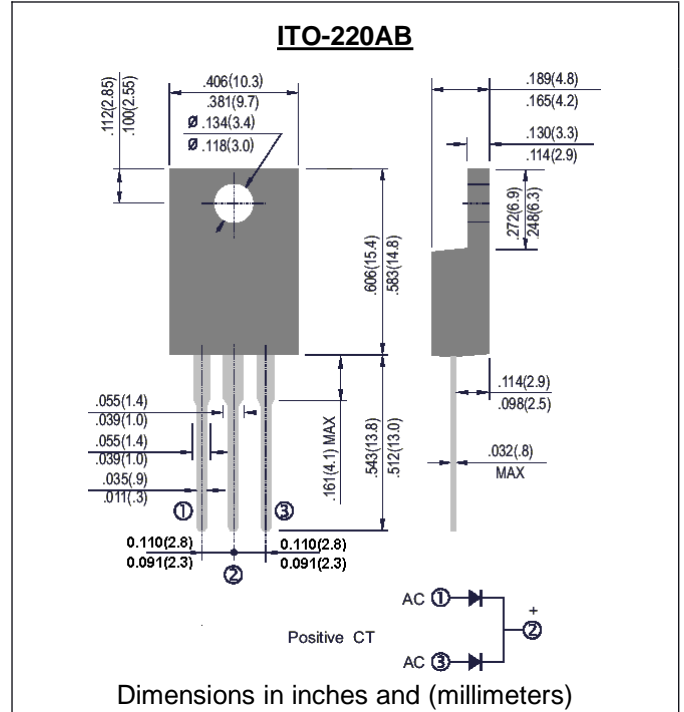


FEATURE

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	SB2060FCT	units
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	60	V
Maximum RMS Voltage	V _{rms}	42	V
Maximum DC blocking Voltage	V _{dc}	60	V
Maximum Average Forward Rectified Current at T _c =90°C	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	0.75	V
Maximum DC Reverse Current at rated DC blocking voltage	I _r	0.5 100	mA
Typical Thermal Resistance (Note 1)	R _{th(jc)}	2.0	°C/W
Operating Junction Temperature Range	T _j	-50 to +125	°C
Storage Temperature Range	T _{stg}	-50 to +150	°C

Note:
 1. Thermal Resistance from Junction to Case

RATINGS AND CHARACTERISTIC CURVES SB2060FCT

FIG. 1 - FORWARD CURRENT DERATING CURVE

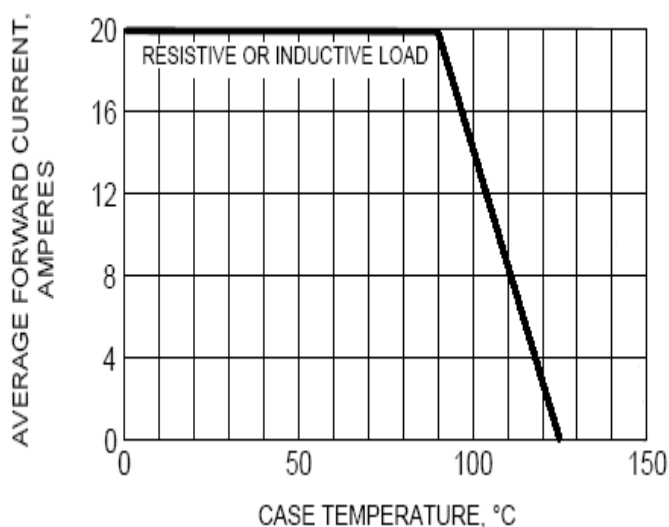


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

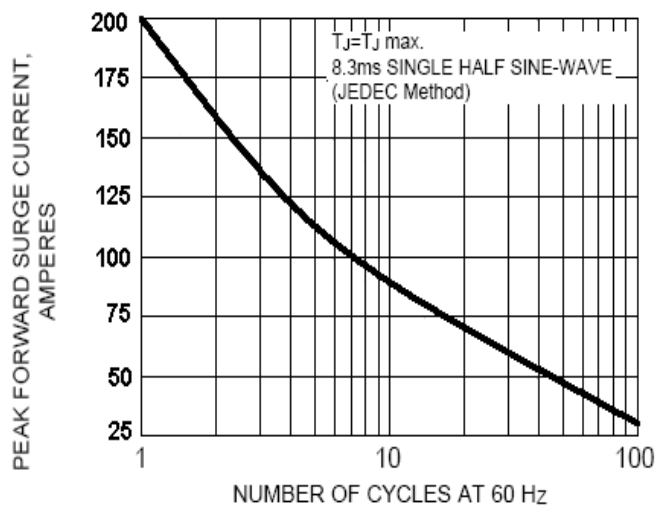


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER LEG

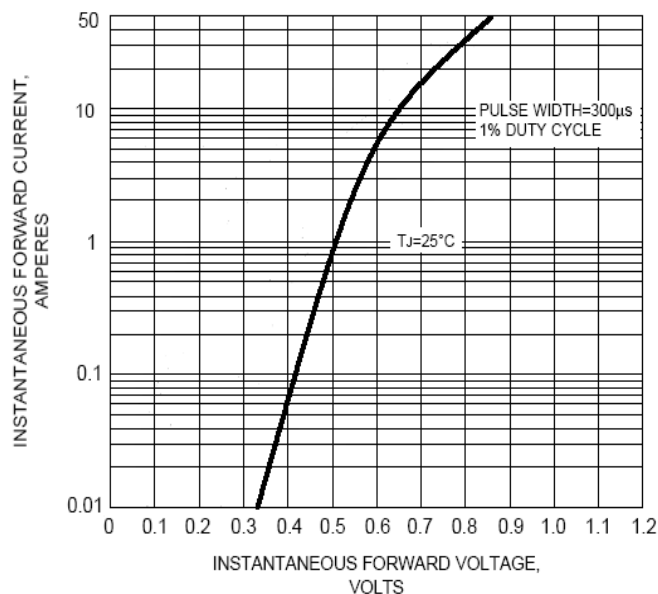


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS PER LEG

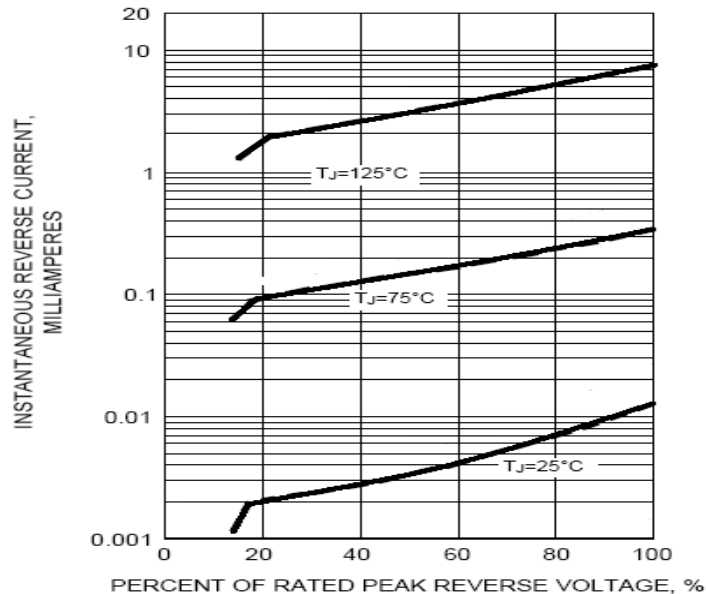


FIG. 5 - TYPICAL JUNCTION CAPACITANCE PER LEG

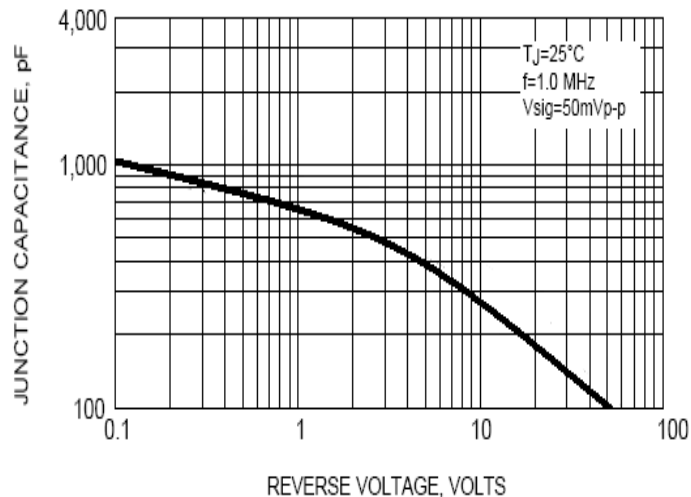


FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE PER LEG

