

# SB1060FCT

## SCHOTTKY BARRIER RECTIFIER

VOLTAGE: 60V

CURRENT: 10.0A

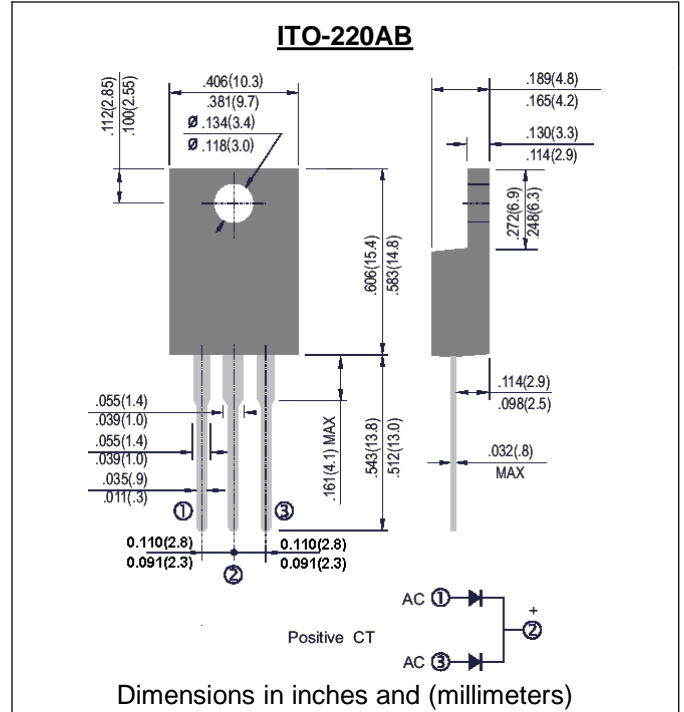


### FEATURE

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 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	SB1060FCT	units
Maximum Recurrent Peak Reverse Voltage	V <sub>rrm</sub>	60	V
Maximum RMS Voltage	V <sub>rms</sub>	42	V
Maximum DC blocking Voltage	V <sub>dc</sub>	60	V
Maximum Average Forward Rectified Current at T <sub>c</sub> =90°C	I <sub>f(av)</sub>	10	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I <sub>fsm</sub>	150	A
Maximum Forward Voltage at 5A	V <sub>f</sub>	0.75	V
Maximum DC Reverse Current at rated DC blocking voltage Ta =25°C Ta =100°C	I <sub>r</sub>	0.5 50	mA
Typical Thermal Resistance	R <sub>th(ja)</sub>	60.0	°C/W
Operating Junction and Storage Temperature Range	T <sub>j</sub> T <sub>stg</sub>	-50 to +125	°C

Note:

RATINGS AND CHARACTERISTIC CURVES SB1060FCT

Fig.1- FORWARD CURRENT DERATING CURVE

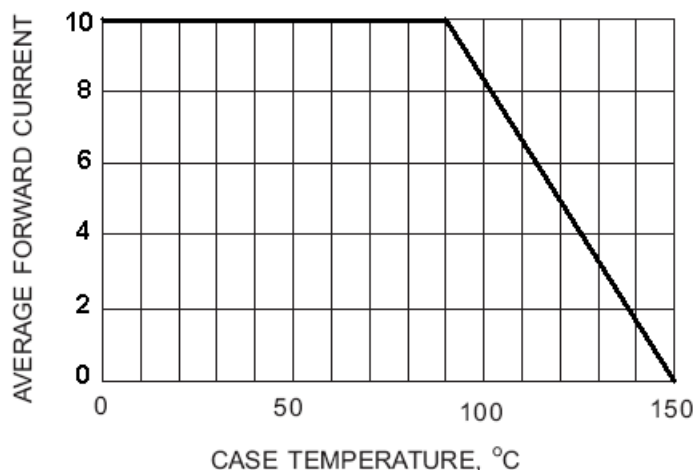


Fig.2- MAXIMUM NON-REPETITIVE SURGE CURRENT

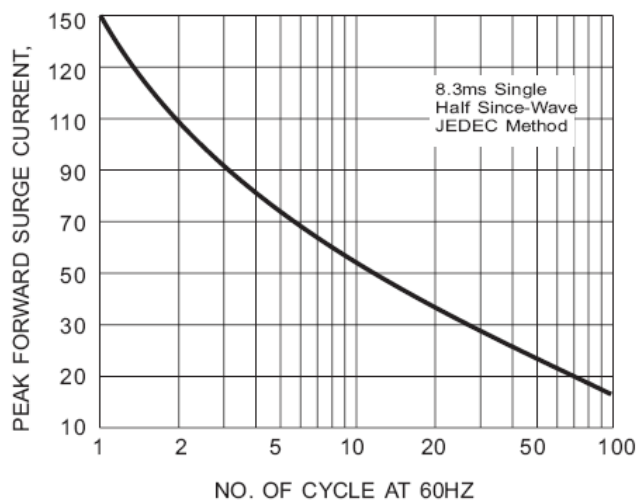


Fig.3- TYPICAL REVERSE CHARACTERISTIC

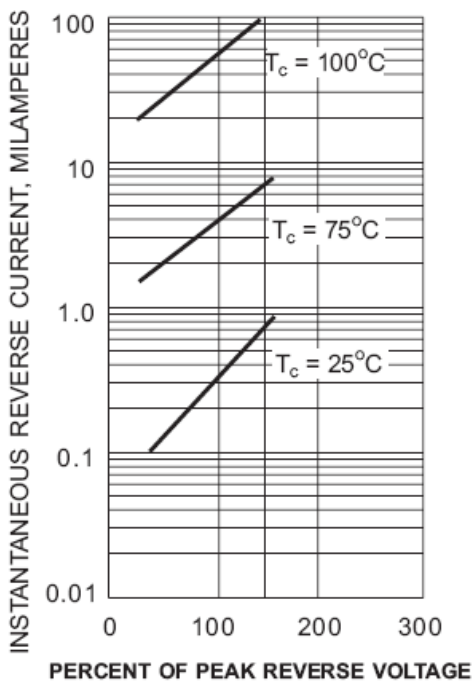


Fig.4- MAXIMUM NON-REPETITIVE SURGE CURRENT

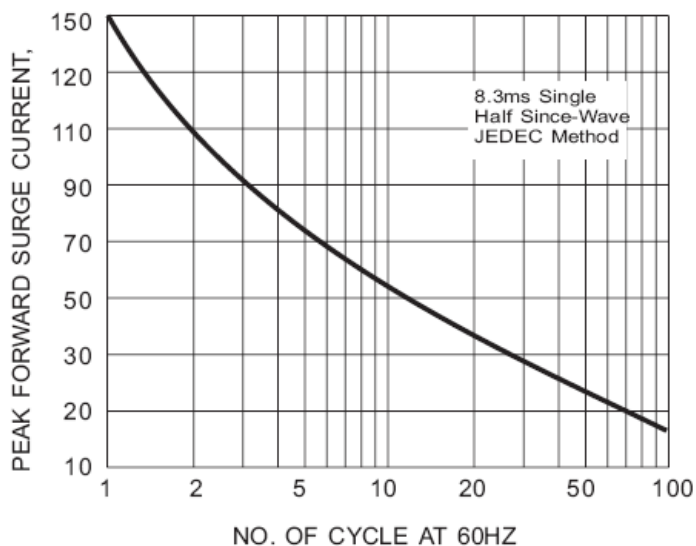


Fig.5- TYPICAL JUNCTION CAPACITANCE

