

# SB860FW

## SCHOTTKY BARRIER RECTIFIER

VOLTAGE: 60V

CURRENT: 8.0A

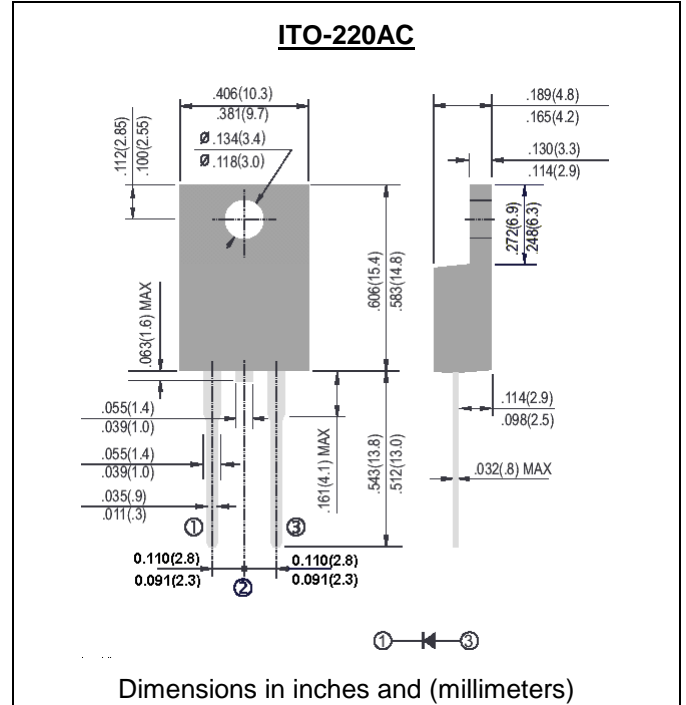


### FEATURE

- Low power losses, high efficiency
- Low forward voltage drop
- Low leakage current
- High forward surge capability
- High frequency operation: 260°C /10sec

### MECHANICAL DATA

- Terminal: Plated axial leads solderable per J-STD-002
- 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	SB860FW	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	I <sub>f(av)</sub>	8.0	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 8A	V <sub>f</sub>	0.72	V
Maximum DC Reverse Current at rated DC blocking voltage	I <sub>r</sub>	0.5 5.0	mA
Typical Thermal Resistance	R <sub>th(jc)</sub>	5.0	°C/W
Operating Junction Temperature Range	T <sub>j</sub>	-55 to +125	
Storage Temperature Range	T <sub>stg</sub>	-55 to +150	°C

Note:

RATINGS AND CHARACTERISTIC CURVES SB860FW

Fig. 1 - Forward Current Derating Curve

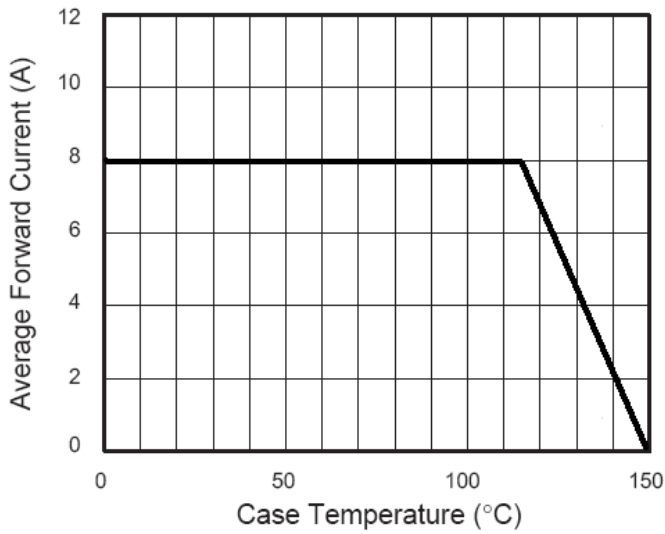


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

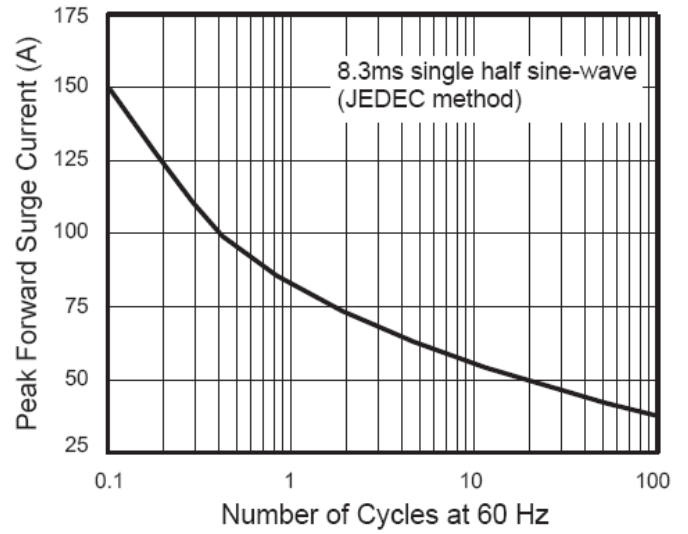


Fig. 3 - Typical Instantaneous Forward Characteristics

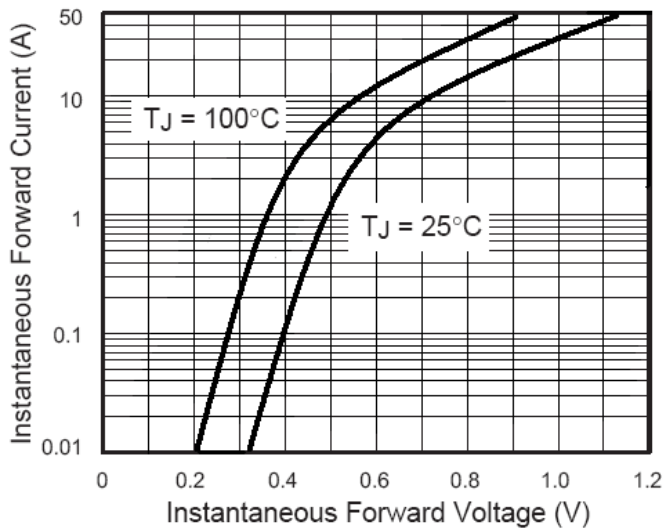


Fig. 4 - Typical Reverse Characteristics

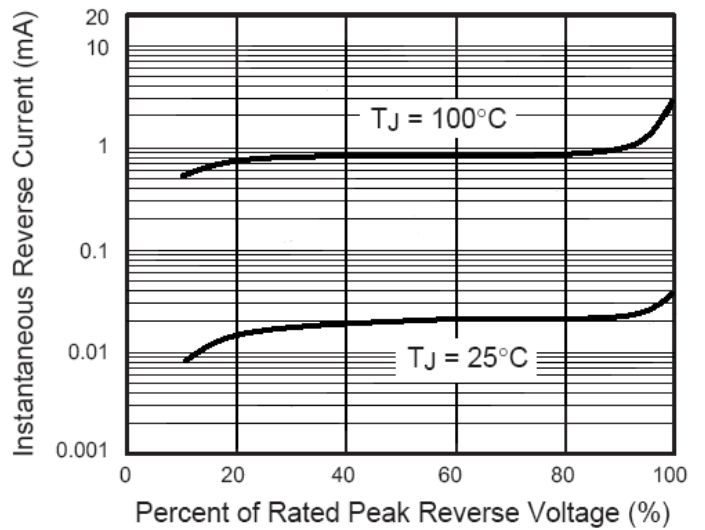


Fig. 5 - Typical Junction Capacitance

