



SB820F THRU SB8100F

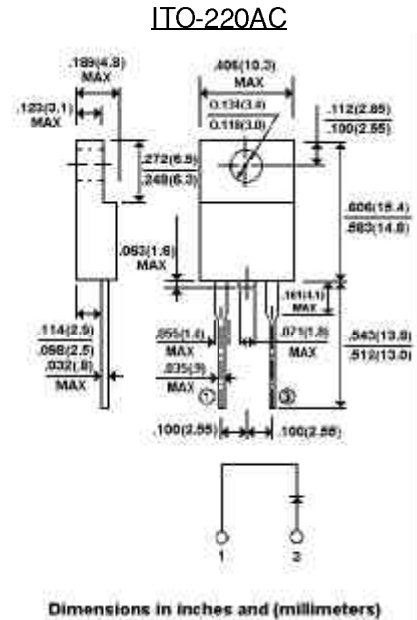
ISOLATION SCHOTTKY BARRIER RECTIFIERS
VOLTAGE - 20 to 100 Volts CURRENT - 8.0 Amperes

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0 utilizing Flame Retardant Epoxy Molding Compound
- Exceeds environmental standards of MIL-S-19500/228
- Low power loss, high efficiency
- Low forward voltage, high current capability
- High surge capacity
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

MECHANICAL DATA

Case: ITO-220AC full molded plastic package
Terminals: Leads, solderable per MIL-STD-202, Method 208
Polarity: As marked
Mounting Position: Any
Weight: 0.08 ounce, 2.24 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

Resistive or inductive load.

For capacitive load, derate current by 20%.

	SB820F	SB830F	SB840F	SB850F	SB860F	SB880F	SB8100F	UNITS
Maximum Recurrent Peak Reverse Voltage	20	30	40	50	60	80	100	V
Maximum RMS Voltage	14	21	26	35	42	56	80	V
Maximum DC Blocking Voltage	20	30	40	50	60	80	100	V
Maximum Average Forward Rectified Current at T _C =100 °J	8.0							A
Peak Forward Surge Current, 8.3ms single half sine wave superimposed on rated load(JEDEC method)	150							A
Maximum Forward Voltage at 8.0A per element	0.55		0.75		0.85			V
Maximum DC Reverse Current at Rated T _C =25 °J	0.5							mA
DC Blocking Voltage per element T _C =100 °J	50							
Typical Thermal Resistance Note R _θ KJA	60							°J/W
Operating and Storage Temperature Range T _J	-50 TO +150							°J

NOTES:

Thermal Resistance Junction to Ambient

RATING AND CHARACTERISTIC CURVES
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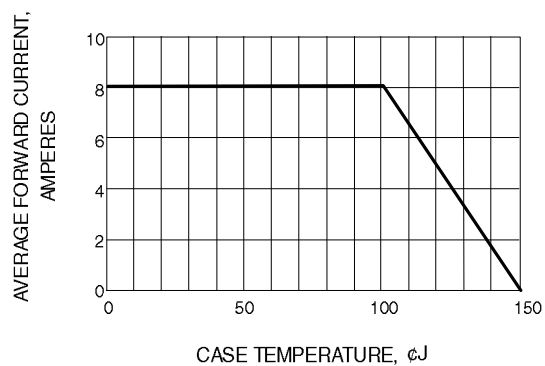


Fig. 1-FORWARD CURRENT DERATING CURVE

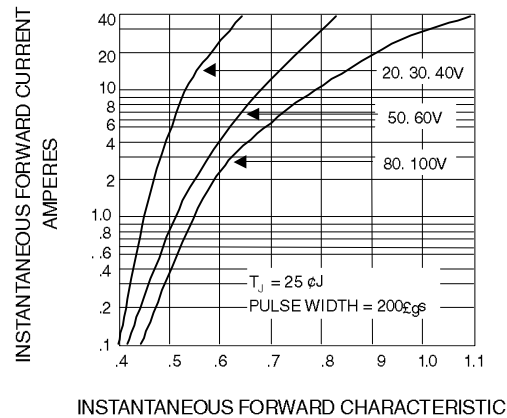


Fig. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

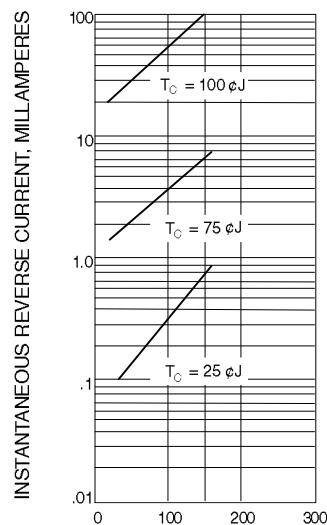


Fig. 3-TYPICAL REVERSE CHARACTERISTICS

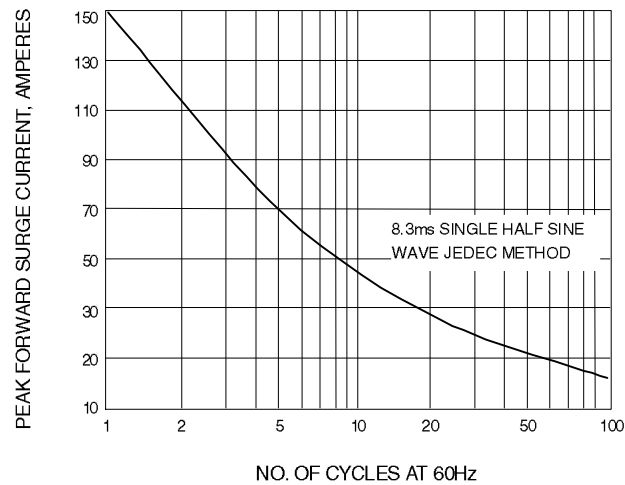


Fig. 4-MAXIMUM NON-REPETITIVE SURGE CURRENT

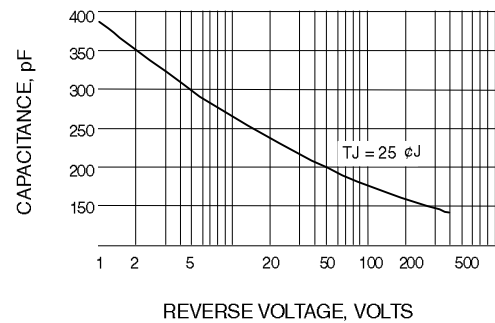


Fig. 5-TYPICAL JUNCTION CAPACITANCE