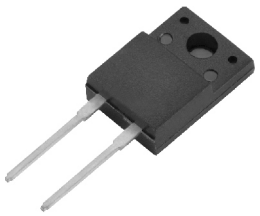
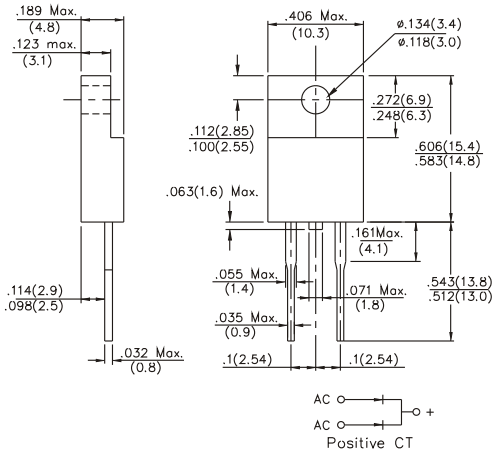
SB820F thru SB8100F

ISOLATION SCHOTTKY BARRIER RECTIFIER

VOLTAGE - 20 TO 100 VOLTS CURRENT - 8.0 AMPERES



ITO-220AC



Dimensions in inches and (millimeters)

FEATURES

- Plastic package has Underwriters laboratory Flammability Classification 94V-0 utilizing Flame Retardant Epoxy Molding Compound
- Exceeds environmental standards of MILS-19500 / 228
- Low power loss, high efficiency
- Low forward voltage. high current capability
- High surge capability
- For use in low voltage, high frequency inverters Free wheeling. And polarlity protection applications
- High temperature soldering：260°C/10seconds at terminals
- Pb free product are available：99% Sn above can meet RoHS
- environment substance directive request

MECHANICAL DATA

Case：ITO220AC full molded plastic package
Terminals：Lead solderable per MIL-STD-202, Method 208
Polarity：As marked.
Mounting Position：Any
Weight：0.08 ounce, 2.24gram

MAXIMUM RATIXGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified
Single phase, half wave, 60Hz, resistive or inductive load
For capacitive load, derate current by 20%

	SYMBOL	SB820F	SB830F	SB840F	SB850F	SB860F	SB880F	SB8100F	UNITS
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	Volts
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	Volts
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	Volts
Maximum Average Forward Rectified Current at T_C=100°C	$I_{(AV)}$	8.0							Amps
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	150							Amps
Maximum Forward Voltage at 8.0A	V_F	0.55			0.75		0.85		Volts
Maximum DC Reverse Current T_A=25°C at Rated DC Blocking Voltage T_A=100°C	I_R	0.5 50							mA
Typical Thermal Resistance	$R_{\theta JC}$	6							°C / W
Operating and Storage Temperature Range	T_J	-50 to +150							°C
Storage Temperature Range	T_J T_{STG}	-50 to +150							°C

ISOLATION SCHOTTKY BARRIER RECTIFIER

RATINGS AND CHARACTERISTIC CURVES SB820F THRU SB8100F

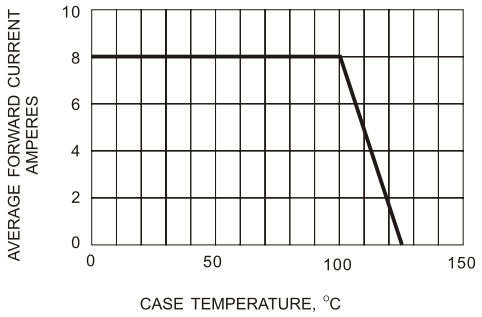


Fig.1- FORWARD CURRENT DERATING CURVE

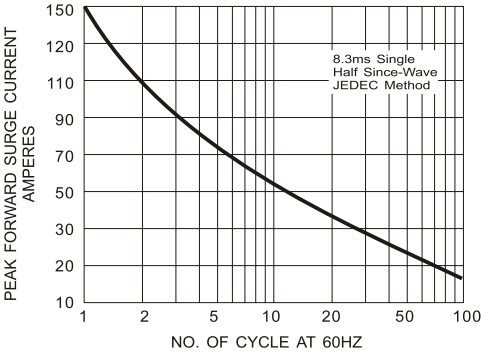


Fig.2- MAXIMUM NON - REPETITIVE SURGE CURRENT

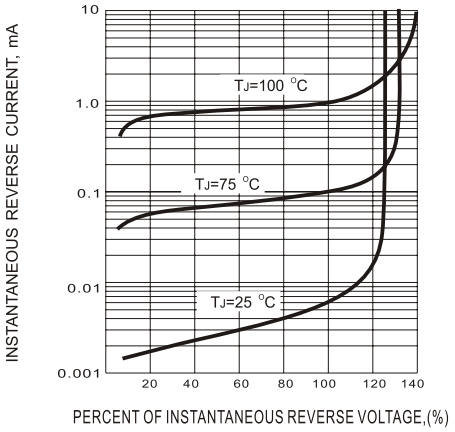


Fig.3- TYPICAL REVERSE CHARACTERISTIC

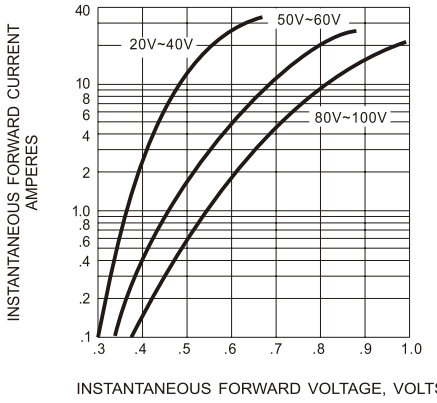


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHRACTERISTIC