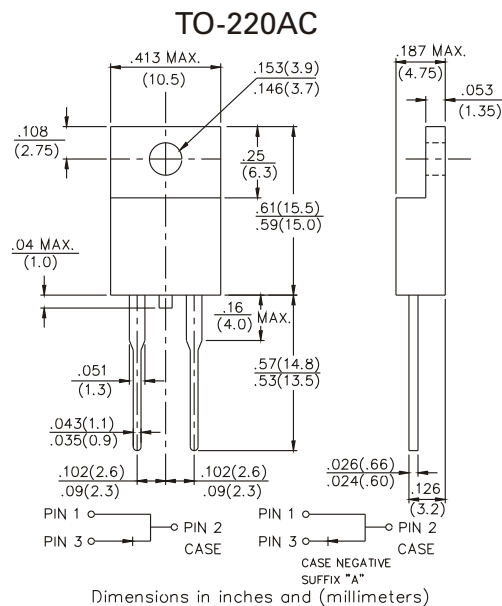
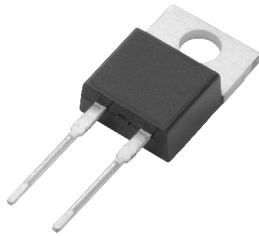


SB820 thru SB8100

SCHOTTKY BARRIER RECTIFIER

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 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 polarity 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 : TO220AC 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 RATINGS 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	SB820	SB830	SB840	SB850	SB860	SB880	SB8100	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 Current .375" (9.5mm) ead length 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 _{θJC}	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

SB820 thru SB8100

SCHOTTKY BARRIER RECTIFIER

RATINGS AND CHARACTERISTIC CURVES SB820 THRU SB8100

Fig. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

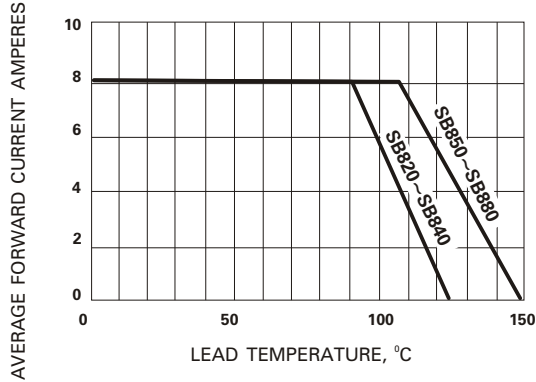


Fig. 2 - TYPICAL REVERSE CHARACTERISTICS

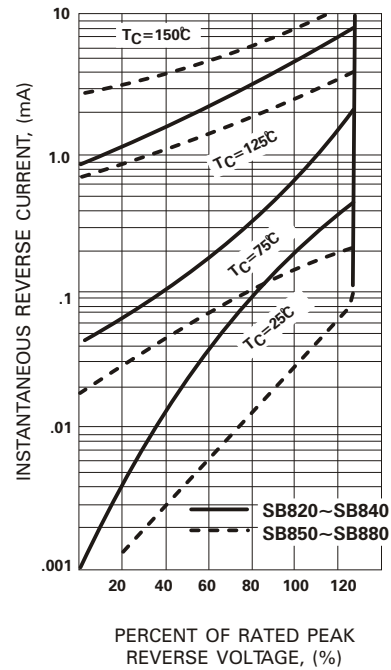


Fig. 3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

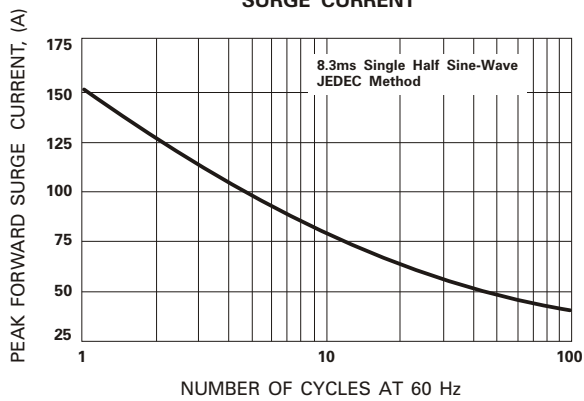


Fig. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

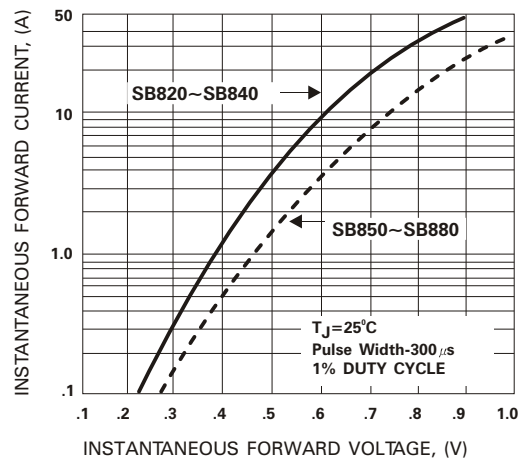


Fig. 5 - TYPICAL JUNCTION CAPACITANCE

