



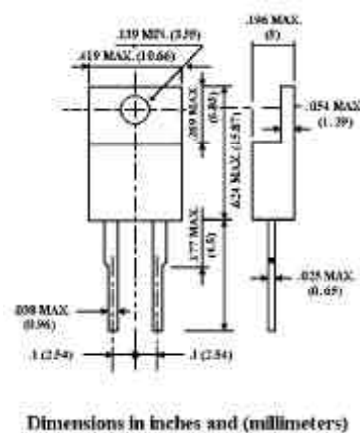
SB820 THRU SB8100

8 AMPERE 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

TO-220AC



MECHANICAL DATA

- Case: TO-220AC molded plastic
- 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 Single phase, half wave 60 Hz.
- For capacitive load, derate current by 20%.

	SB820	SB830	SB840	SB850	SB860	SB880	SB8100	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 ºJ	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 ºJ	0.5							mA
DC Blocking Voltage per element T _C =100 ºJ	50							
Typical Thermal Resistance Note R £KJA	60							ºJ/W
Operating and Storage Temperature Range T _J	-50 TO +125							ºJ

NOTES:

Thermal Resistance Junction to Ambient

RATING AND CHARACTERISTIC CURVES
SB820 THRU SB8100

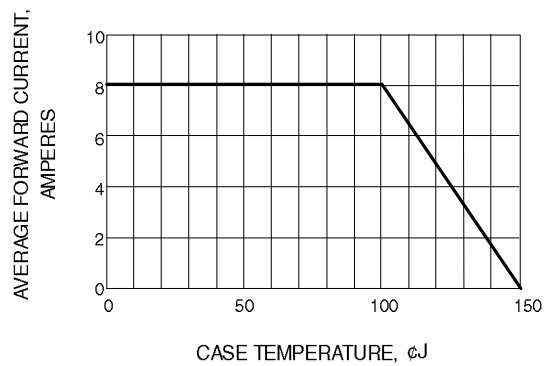


Fig. 1-FORWARD CURRENT DERATING CURVE

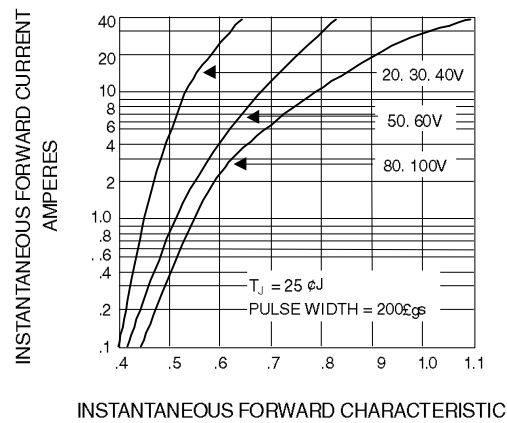


Fig. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

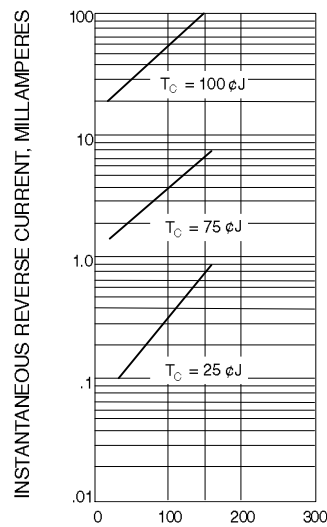


Fig. 3-TYPICAL REVERSE CHARACTERISTICS

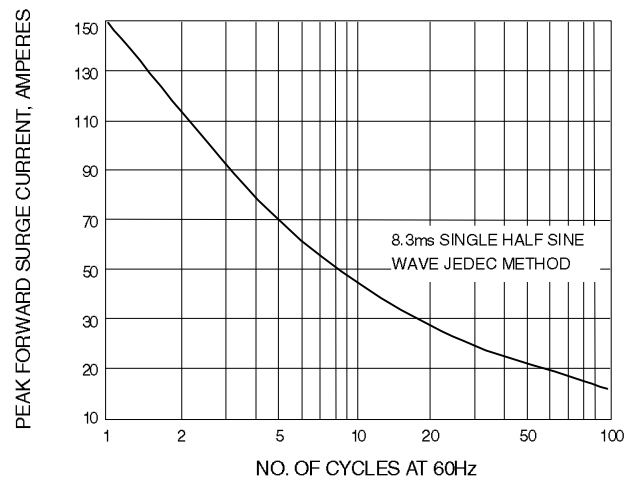


Fig. 4-MAXIMUM NON-REPETITIVE SURGE CURRENT

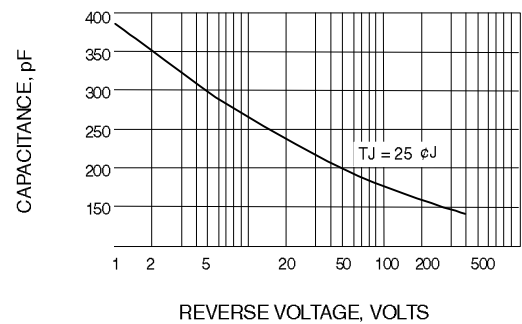


Fig. 5-TYPICAL JUNCTION CAPACITANCE