

SB820 THRU SB860

SCHOTTKY BARRIER RECTIFIER

VOLTAGE: 20 TO 60V

CURRENT: 8.0A

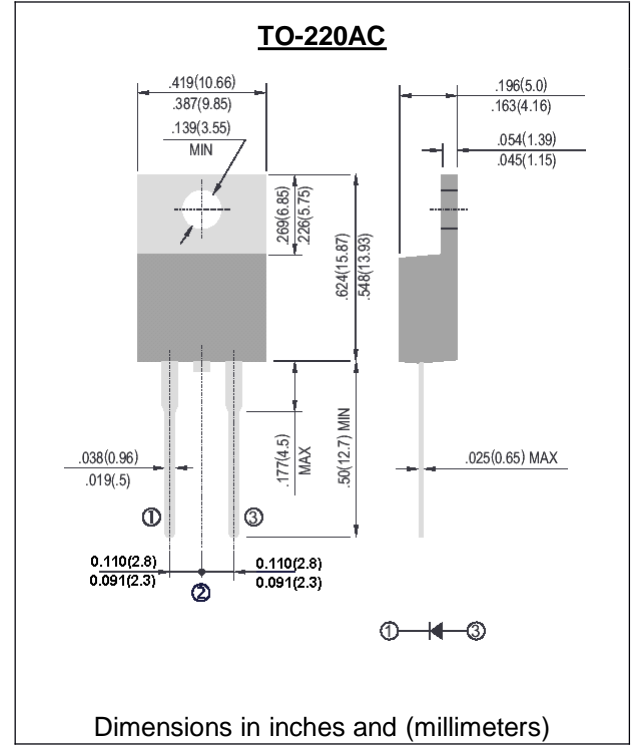


FEATURE

High current capability, Low forward voltage drop
Low power loss, high efficiency
High surge capability

MECHANICAL DATA

Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C
Case: Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy
Polarity: AS MARKED
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	SB 820	SB 830	SB 835	SB 840	SB 845	SB 850	SB 860	units
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	20	30	35	40	45	50	60	V
Maximum RMS Voltage	V _{rms}	14	21	25	28	32	35	42	V
Maximum DC blocking Voltage	V _{dc}	20	30	35	40	45	50	60	V
Maximum Average Forward Rectified Current	I _{f(av)}	8.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	150.0							A
Maximum Forward Voltage at 8.0A DC	V _f	0.65					0.75		V
Maximum DC Reverse Current at rated DC blocking voltage Ta =25°C Ta =100°C	I _r	1.0							mA
		15.0					50.0		mA
Typical Junction Capacitance (Note 1)	C _j	700					450		pF
Typical Thermal Resistance (Note 2)	R(jc)	2.5							°C/W
Storage and Operating Junction Temperature	T _{stg} ,T _j	-65 to +125					-65 to +150		°C

Note:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
2. Thermal Resistance from Junction to CASE

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

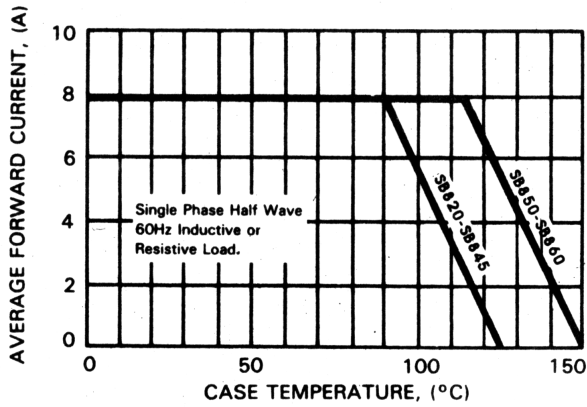


FIG. 2 - TYPICAL REVERSE CHARACTERISTICS

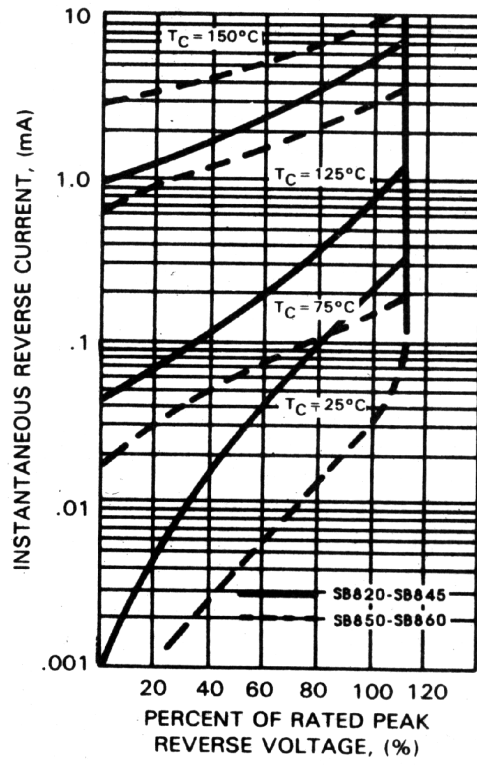


FIG. 3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

