



SR820~SR8100

SCHOTTKY BARRIER RECTIFIERS

Voltage Range 20 to 100 Volts

Current 8 Amperes

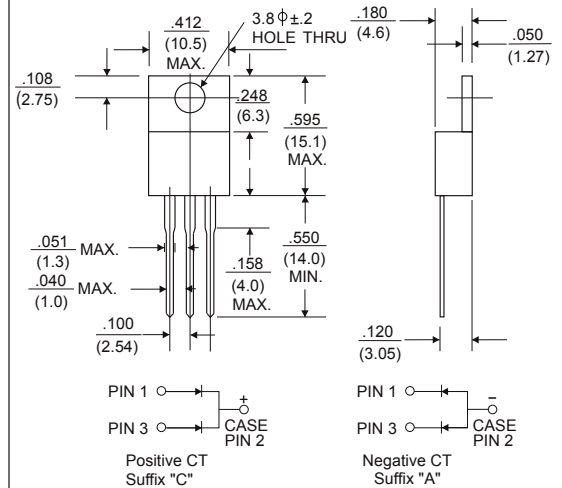
Features

- * Plastic package has Underwriters Laboratory Flammability Classification 94V-O 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.
- * Pb free product are available : 99% Sn above can meet Rohs environment substance directive request

Mechanical Data

Case: TO-220AC full molded plastic package
 Terminals: Lead solderable per MIL-STD-202G, Method 208
 Polarity: As marked.
 Mounting Position: Any
 Weight: 0.08 ounces, 2.24grams.

TO-220AC



Dimensions in millimeters

Maximum Ratings And Electrical Characteristics

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

PARAMETER	SYMBOL	SR820	SR830	SR840	SR850	SR860	SR880	SR8100	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	V
Maximum Average Forward Current .375"(9.5mm) lead length at $T_c = 100^\circ C$	I_{AV}	8							A
Peak Forward Surge Current :8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	150							A
Maximum Forward Voltage at 8.0A	V_F	0.55			0.75		0.85		V
Maximum DC Reverse Current $T_A=25^\circ C$ at Rated DC Blocking Voltage $T_A=100^\circ C$	I_R					0.5 50			mA
Typical Thermal Resistance	$R_{\theta JC}$	6							$^\circ C / W$
Operating Junction Temperature Rang	T_J	-50 to +125							$^\circ C$
Storage Temperature Rang	T_J, T_{STG}	-50 to +150							$^\circ C$

NOTE:

1.Both Bonding and Chip structure are available.

[Http://www.upm.com.tw](http://www.upm.com.tw)

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Rating and Characteristic Curves

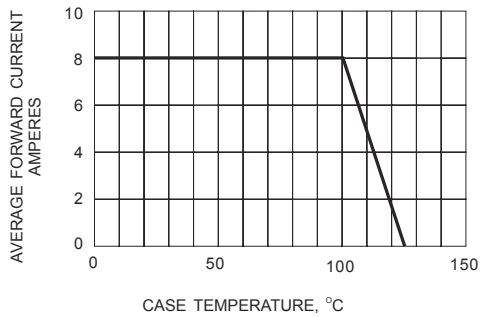


Fig.1- FORWARD CURRENT DERATING CURVE

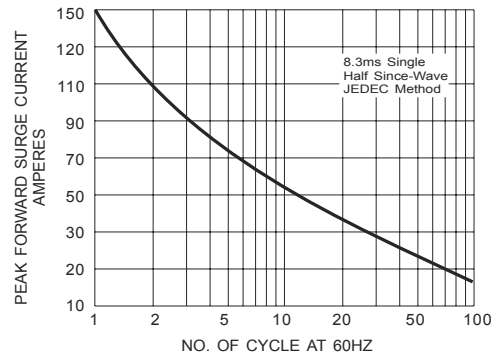


Fig.2- MAXIMUM NON-REPETITIVE SURGE CURRENT

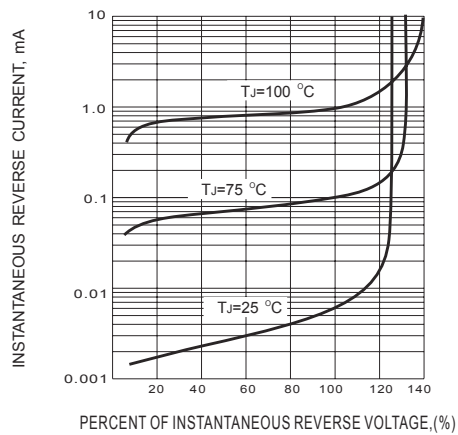


Fig.3- TYPICAL REVERSE CHARACTERISTICS

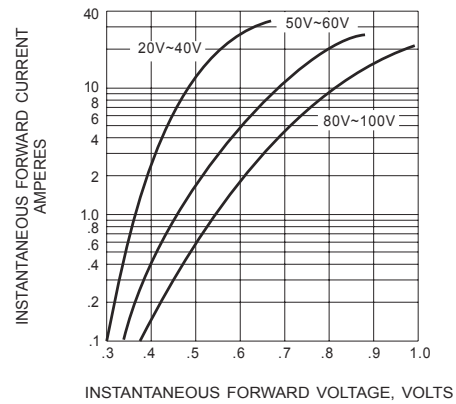


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS