



SR3020~SR3060

SCHOTTKY BARRIER RECTIFIERS

Voltage Range 20 to 60 Volts

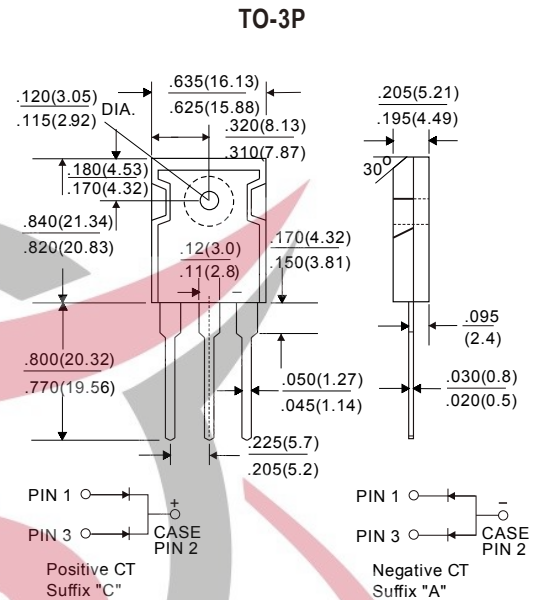
Current 30.0 Amperes

Features

- * Plastic package has Underwriters Laboratory Flammability Classification 94V-O. 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-3P Molded plastic
 Terminals: Solder plated, solderable per MIL-STD-202G, Method 208
 Polarity: As marked.
 Standard packaging: Any
 Weight: 0.2 ounces, 5.6grams.



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	SR3020	SR3030	SR3035	SR3040	SR3045	SR3050	SR3060	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	35	40	45	50	60	V
Maximum RMS Voltage	V_{RMS}	14	21	24.5	28	31.5	35	42	V
Maximum DC Blocking Voltage	V_{DC}	20	30	35	40	45	50	60	V
Maximum Average Forward Current .375"(9.5mm) lead length at $T_c = 100^\circ C$	I_{AV}	30							A
Peak Forward Surge Current :8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	275							A
Maximum Forward Voltage at 15A	V_F	0.55					0.70		V
Maximum DC Reverse Current $T_A = 25^\circ C$ at Rated DC Blocking Voltage $T_A = 100^\circ C$	I_R	1.0					100		mA
Maximum Thermal Resistance	$R_{\theta JC}$	1.5							$^\circ C / W$
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-50 TO +125							$^\circ C$

NOTES:

1. Both Bonding and Chip structure are available.

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

E-mail: upm.tw@msa.hinet.net



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Rating and Characteristic Curves

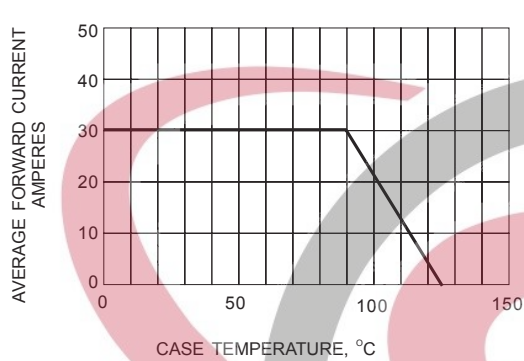


Fig.1- FORWARD CURRENT DERATING CURVE

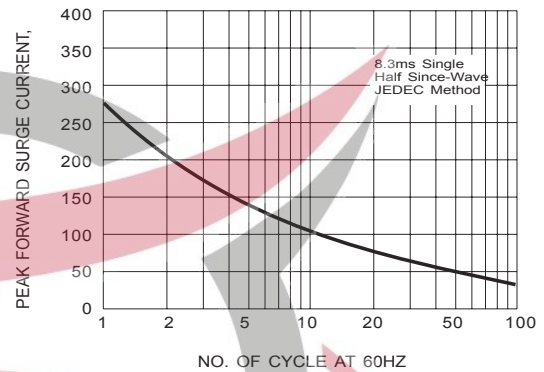


Fig.2- MAXIMUM NON-REPETITIVE SURGE CURRENT

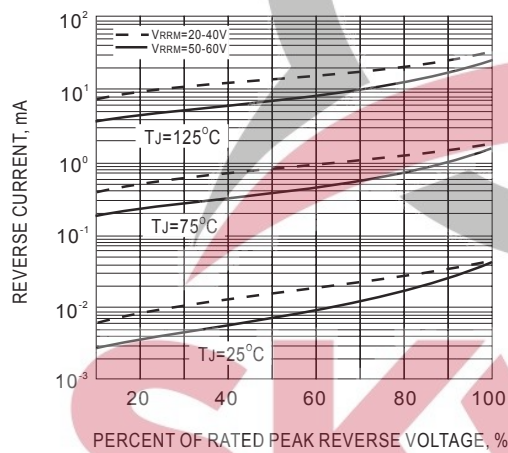


Fig.3- TYPICAL REVERSE CHARACTERISTICS

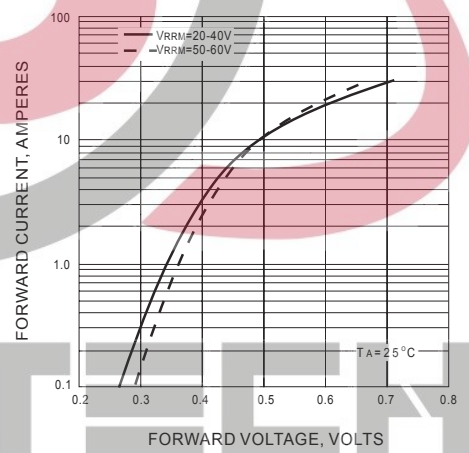


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS