



SR2520CT~SR25100CT

SCHOTTKY BARRIER RECTIFIERS

Voltage Range 20 to 100 Volts

Current 25 Amperes

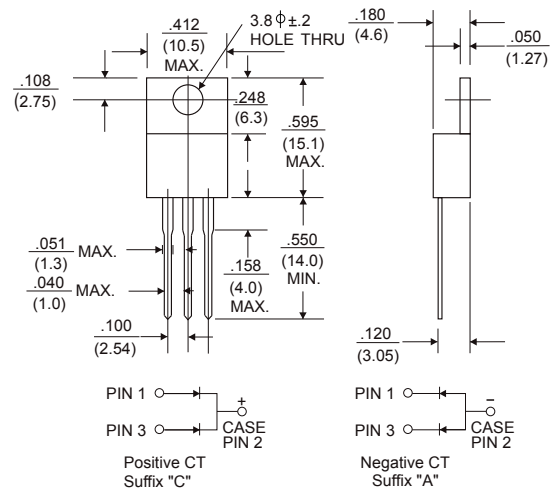
Features

- * 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.
- * Both normal and Pb free product are available :
Normal : 80~95% Sn, 5~20% Pb
Pb free: 98.5% Sn above

Mechanical Data

Case: TO-220AB Molded plastic
 Terminals: Solder plated, solderable per MIL-STD-202, Method 208
 Polarity: As marked.
 Standard packaging: Any
 Weight: 0.08 ounces, 2.24grams.

TO-220AB



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	SR2520CT	SR2530CT	SR2540CT	SR2550CT	SR2560CT	SR2580CT	SR25100CT	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 =90 °C	I _{AV}	25.0							A
Peak Forward Surge Current :8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}	200							A
Maximum Forward Voltage at 12.5A, per leg	V _F	0.55			0.75		0.85		V
Maximum DC Reverse Current T _A =25 °C at Rated DC Blocking Voltage T _A =100°C	I _R	0.5 100							mA
Typical Thermal Resistance	R _{θJC}	2							°C / W
Operating Junction Temperature Range	T _J	-50 TO +125							°C
Storage Temperature Range	T _{STG}	-50 TO +150							°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

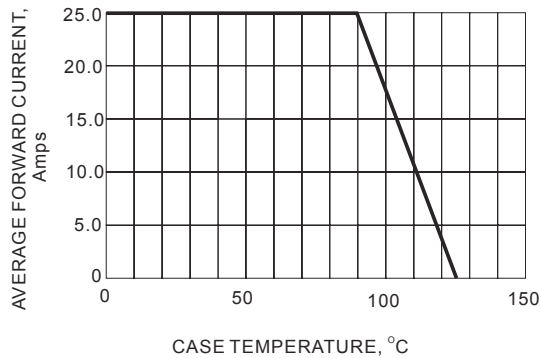


Fig. 1- FORWARD CURRENT DERATING CURVE

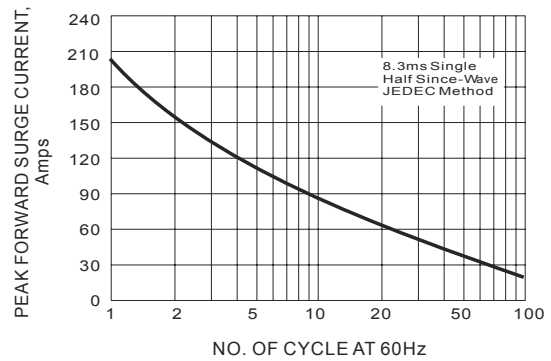


Fig. 2- MAXIMUM NON-REPETITIVE SURGE CURRENT

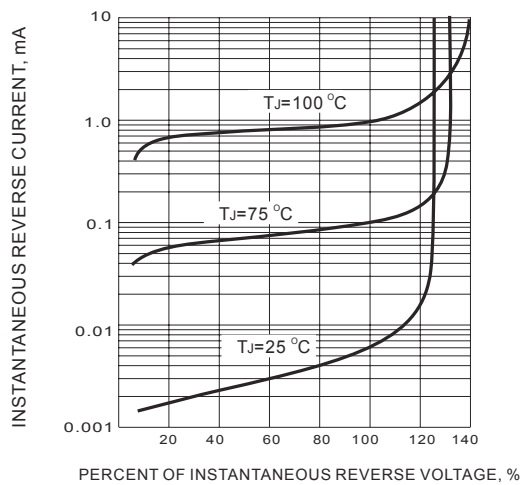


Fig. 3- TYPICAL REVERSE CHARACTERISTICS

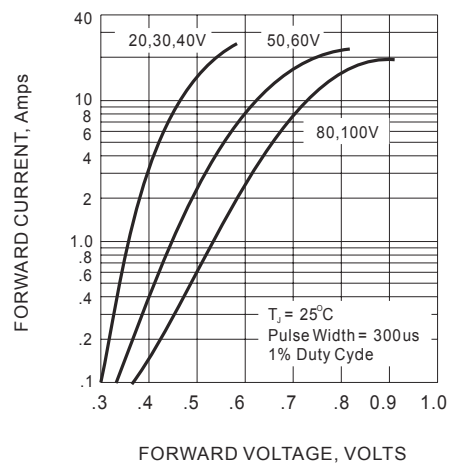


Fig. 4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS