



SR2020CT~SR20200CT

SCHOTTKY BARRIER RECTIFIERS

Voltage Range 20 to 200 Volts

Current 20 Amperes

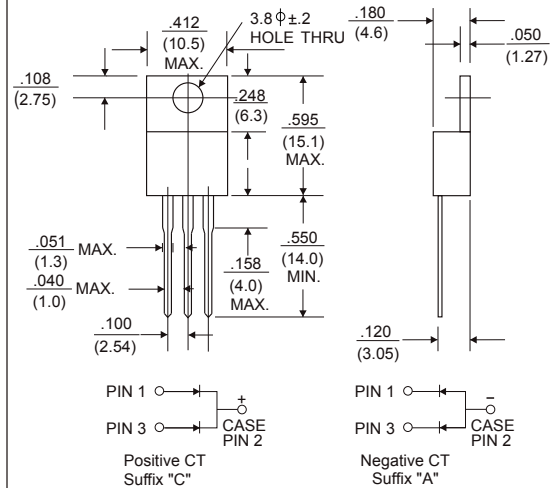
Features

- * 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-220AB Molded plastic
 Terminals: Solder plated, solderable per MIL-STD-202G, 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	SR2020CT	SR2030CT	SR2040CT	SR2050CT	SR2060CT	SR2080CT	SR20100CT	SR20150CT	SR20200CT	UNITS	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	150	200	V	
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	105	140	V	
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	150	200	V	
Maximum Average Forward Current .375" (9.5mm) lead length at $T_c = 90^\circ C$	I_{AV}	20.0									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 10.0A, per leg	V_F	0.55			0.75		0.85		0.92		1	V
Maximum DC Reverse Current $T_A=25^\circ C$ at Rated DC Blocking Voltage $T_A=100^\circ C$	I_R	0.5					100					mA
Typical Thermal Resistance	$R_{\theta JC}$	2									$^\circ C / W$	
Operating Junction Temperature Range	T_J	-50 TO +125									$^\circ C$	
Storage Temperature Range	T_{STG}	-50 TO +150									$^\circ C$	

NOTE:

1. Both Bonding and Chip structure are available.



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Rating and Characteristic Curves

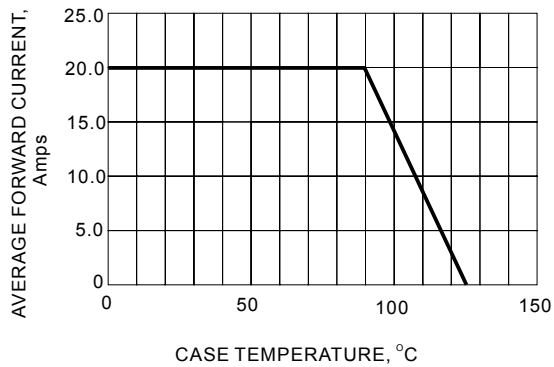


Fig. 1- FORWARD CURRENT DERATING CURVE

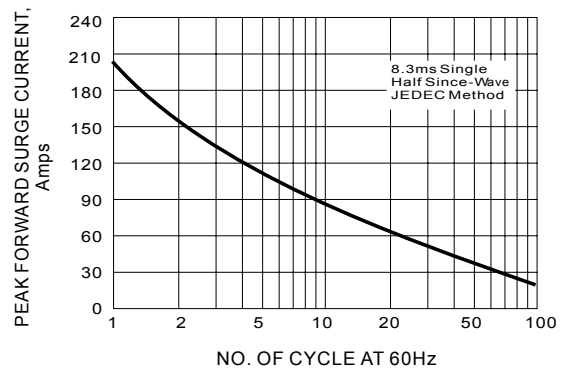


Fig. 2- MAXIMUM NON-REPETITIVE SURGE CURRENT

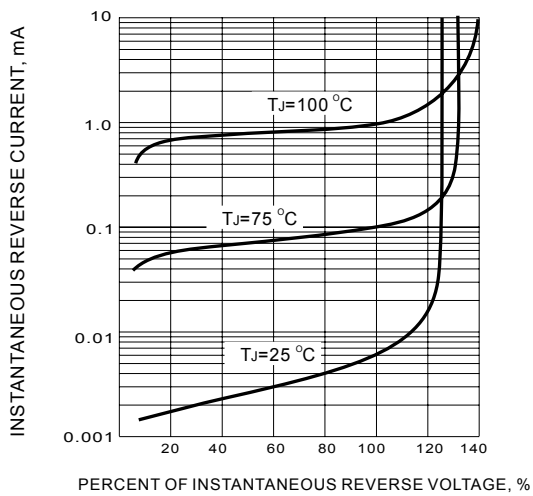


Fig. 3- TYPICAL REVERSE CHARACTERISTICS

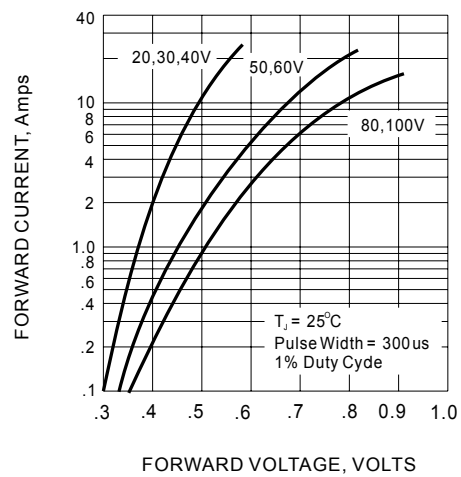


Fig. 4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS