



SR1020CT~SR10150CT

SCHOTTKY BARRIER RECTIFIERS

Voltage Range 20 to 150 Volts

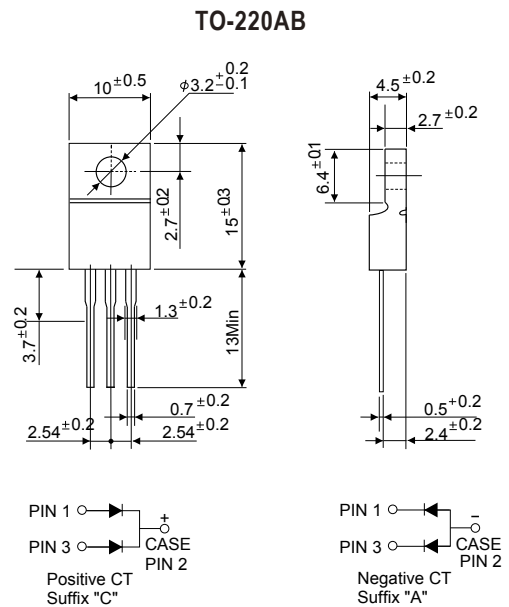
Current 10 Amperes

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.



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	SR1020CT	SR1030CT	SR1040CT	SR1045CT	SR1050CT	SR1060CT	SR1080CT	SR10100CT	SR10150CT	UNITS	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	45	50	60	80	100	150	V	
Maximum RMS Voltage	V _{RMS}	14	21	28	31.5	35	42	56	70	105	V	
Maximum DC Blocking Voltage	V _{DC}	20	30	40	45	50	60	80	100	150	V	
Maximum Average Forward Current .375"(9.5mm) lead length at T _c =100°C	I _{AV}	10									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 5.0A, per leg	V _F	0.55			0.75		0.85		0.92		V	
Maximum DC Reverse Current T _A =25°C at Rated DC Blocking Voltage T _A =100°C	I _R					0.5 50						mA
Typical Thermal Resistance	R _{θJC}					3.0				°C / W		
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-50 TO +125									°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

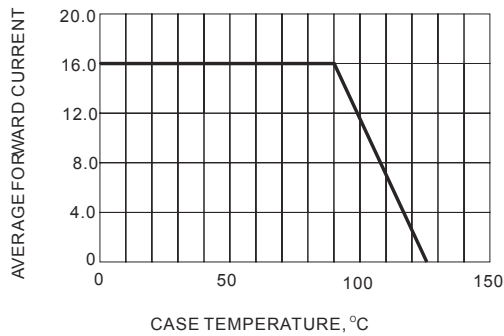


Fig.1- FORWARD CURRENT DERATING CURVE

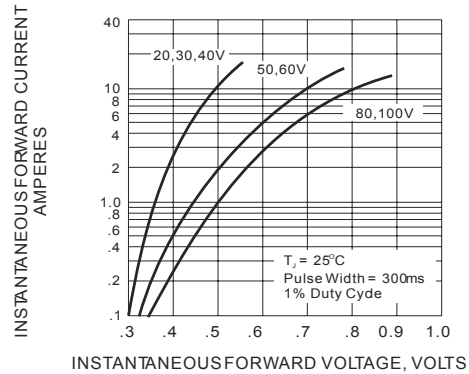


Fig.2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

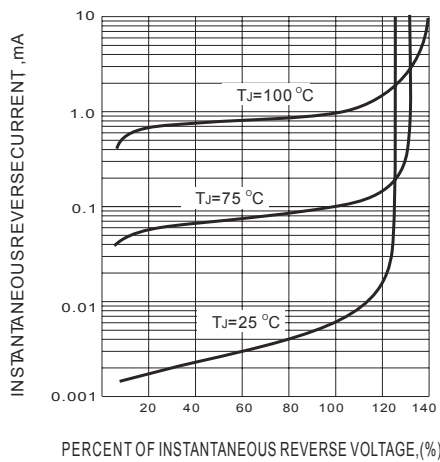


Fig.3- TYPICAL REVERSE CHARACTERISTIC

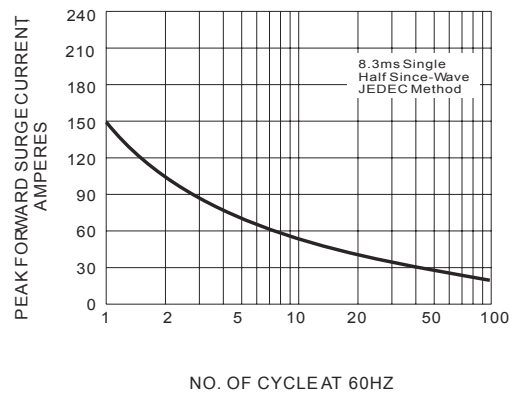


Fig.4- MAXIMUM NON - REPETITIVE SURGE CURRENT