SR2020CT THRU SR20200CT

SCHOTTKY BARRIER RECTIFIER



REVERSE VOLTAGE: 20 to 200 VOLTS FORWARD CURRENT: 20.0 AMPERE

FEATURES

- · Plastic package has UL flammability classification 94V-0
- · Metal of silicon rectifier, majority carrier conduction
- · Guard ring for transient protection
- · High capability
- · Low power loss, high efficiency
- · High current capability, low V_F
- · High surge capacity
- · For use in low voltage, high frequency inverters, free whelling, and polarity protection applications

MECHANICAL DATA

Case: Molded plastic, TO-220

Epoxy: UL 94V-O rate flame retardant

Terminals: Leads solderable per MIL-STD-202

method 208 guaranteed Polarity: As marked Mounting position: Any Weight: 0.08ounce, 2.24gram

TO-220 108 413 (10.5) 153 (3.9) 148 (3.8) 270 (6.9) 230 (5.8) 04MAX (1.0) 157 (4.0) 1583 (14.8) 053 (1.3) 047 (1.2) 053 (1.3) 047 (1.2) 053 (1.3) 053 (1.3) 047 (1.2) 053 (1.3) 074 (1.2) 075 (1.3) 075 (1.3) 075 (1.3) 075 (1.3) 075 (1.3) 075 (1.3) 075 (1.3) 075 (1.3) 077 (1.

Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

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	Symbols	SR2020CT	SR2030CT	SR2040CT	SR2050CT	SR2060CT	SR2080CT	SR20100C1	SR20150C1	SR20200CT	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	80	105	140	Volts
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current	T	20.0									Amp
See Fig. 1	$I_{(AV)}$										
Peak Forward Surge Current,											
8.3ms single half-sine-wave	I_{FSM}	I_{FSM} 200									Amp
superimposed on rated load (JEDEC method)											
Maximum Forward Voltage	V _F		0.55	0.55		70	0	05	0.0	0.5	Volts
at 10.0A DC and 25℃	V _F	0.33			0.70		0.85		0.95		vous
Maximum Reverse Current at T _C =25℃		1.0 0.2									mAmp
at Rated DC Blocking Voltage T _C =100℃	I_R	50									
Typical Junction Capacitance (Note 1)	C _J	700 500						pF			
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	2									°C/W
Operating Temperature Range	T_{J}	-55 to +125			-55 to +150						${\mathfrak C}$
Storage Temperature Range	Tstg	-55 to +150									င

NOTES:

- 1- Measured at 1 MH_Z and applied reverse voltage of 4.0 VDC.
- 2- Thermal Resistance from Junction to Case Per Leg

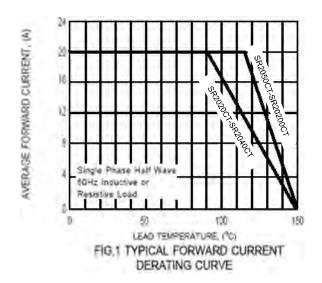
SR2020CT THRU SR20200CT

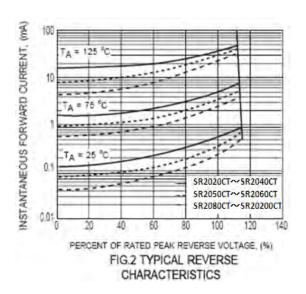
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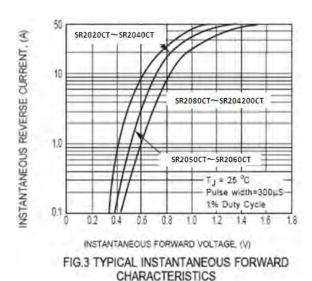




RATINGS AND CHARACTERISTIC CURVES







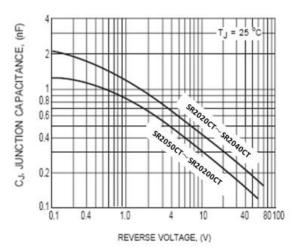


FIG.4 TYPICAL JUNCTION CAPACITANCE

