

SR2020C THRU SR20200C

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 to 200 Volts CURRENT 20.0 Ampere

FEATURES

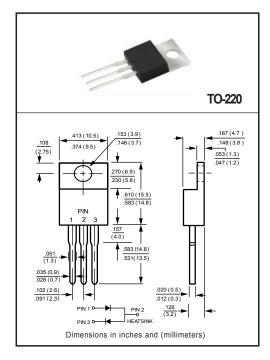
- * Low switching noise
- * Low forward voltage drop
- * Low thermal resistance
- * High current capability
- * High switching capability
- * High surge capabitity
- * High reliability

MECHANICAL DATA

- * Case: To-220 molded plastic
- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any * Weight: 2.24 grams

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%.



MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

RATINGS	SYMBOL	SR2020C	SR2030C	SR2035C	SR2040C	SR2045C	SR2050C	SR2060C	SR2080C	SR20100C	SR20150C	SR202000	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	35	40	45	50	60	80	100	150	200	Volts
Maximum RMS Voltage	V _{RMS}	14	21	25	28	32	35	42	56	70	105	140	Volts
Maximum DC Blocking Voltage	V _{DC}	20	30	35	40	45	50	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current at Derating Case Temperature	Io	20									Amps		
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	150										Amps	
Typical Thermal Resistance (Note 1)	R _{θJC}	2.0										°C/W	
Typical Thermal Nesistance (Note 1)	R _{θJA}	40											
Typical Junction Capacitance (Note 3)	CJ	700						500					
Operating Temperature Range	TJ	150								٥C			
Storage Temperature Range	T _{STG}	-55 to + 150										٥C	

ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

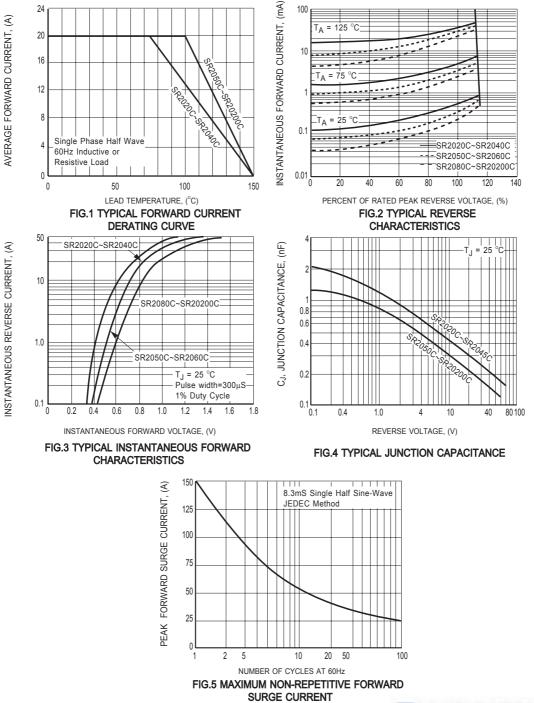
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CHARACTERI	SYMBOL	SR2020CSR2	2030C SR2035	SR2040C	SR2045C	SR2050C	SR2060C	SR2080C	SR201000	SR20150C	SR20200C	UNITS	
Maximum Instantaneous Forward Voltag	VF	.65				.7	5	.85				Volts	
Maximum Average Reverse Current	@T _A = 25°C	1-	1.0									mA	
at Rated DC Blocking Voltage	@T _A = 100°C	IR.					10	<u>)</u>					mΑ

NOTES: 1. Thermal Resistance: Heat-sink mounted.

- 2. Suffix "A" = Common Anode.
 3. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
 4. "Fully ROHS compliant","100% Sn plating (Pb-free)".

2006-11

RATING AND CHARACTERISTICS CURVES (SR2020C THRU SR20200C)





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