



SCHOTTKY BARRIER RECTIFIER

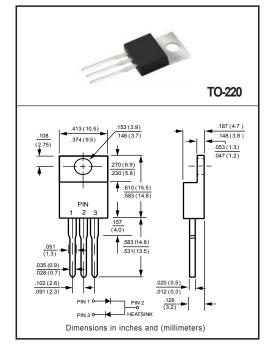
VOLTAGE RANGE 20 to 200 Volts CURRENT 20.0 Ampere

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%.

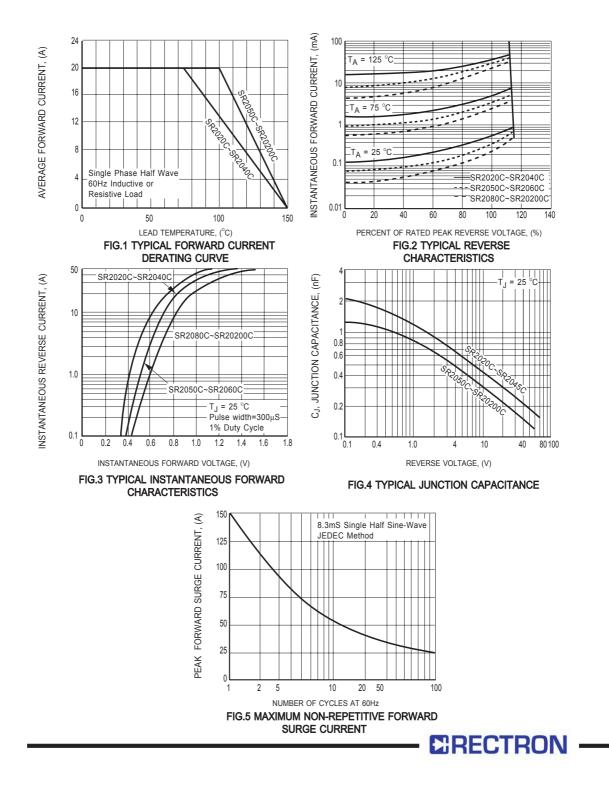
MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted) RATINGS SYMBOL SR2020CSR2030C SR2035C SR2040C SR2045C R2080C SR20100C SR20150C SR20200C UNITS SR2050C SR2060C Maximum Recurrent Peak Reverse Voltage V_{RRM} 20 30 35 40 45 50 60 80 100 150 200 Volts Maximum RMS Voltage V_{RMS} 42 14 21 25 28 32 35 56 70 105 140 Volts Maximum DC Blocking Voltage 20 30 35 40 45 50 60 80 100 150 200 Volts V_{DC} Maximum Average Forward Rectified Current 20 Amps I_0 at Derating Case Temperature Peak Forward Surge Current 8.3 ms single half sine-wave I_{FSM} 150 Amps superimposed on rated load (JEDEC method) $R_{\theta JC}$ 2.0 Typical Thermal Resistance (Note 1) °C/W $R_{\theta JA}$ 40 Typical Junction Capacitance (Note 3) 700 500 рF C,I Operating Temperature Range $T_{\rm J}$ 150 ٥C -55 to + 150 ⁰ C Storage Temperature Range $\mathsf{T}_{\mathsf{STG}}$

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

CHARACTERISTICS		SYMBOL	SR2020CSR20300	SR2035C	SR2040C S	R2045C	SR2050C	SR2060C	SR2080C	SR20100C	SR20150C	SR20200C	UNITS
Maximum Instantaneous Forward Voltage at 10.0A DC		VF	.65				.75		.85			Volts	
Maximum Average Reverse Current	@T _A = 25°C		1.0										mA
at Rated DC Blocking Voltage	@T _A = 100°C	I _R	10								mA		
NOTES : 1. Thermal Resistance : Heat-sink mounted.										2006-11			

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





DISCLAIMER NOTICE

Rectron Inc reserves the right to make changes without notice to any product specification herein, to make corrections, modifications, enhancements or other changes. Rectron Inc or anyone on its behalf assumes no responsibility or liability for any errors or inaccuracies. Data sheet specifications and its information contained are intended to provide a product description only. "Typical" parameters which may be included on RECTRON data sheets and/ or specifications can and do vary in different applications and actual performance may vary over time. Rectron Inc does not assume any liability arising out of the application or use of any product or circuit.

Rectron products are not designed, intended or authorized for use in medical, life-saving implant or other applications intended for life-sustaining or other related applications where a failure or malfunction of component or circuitry may directly or indirectly cause injury or threaten a life without expressed written approval of Rectron Inc. Customers using or selling Rectron components for use in such applications do so at their own risk and shall agree to fully indemnify Rectron Inc and its subsidiaries harmless against all claims, damages and expenditures.

