



SCHOTTKY BARRIER RECTIFIER

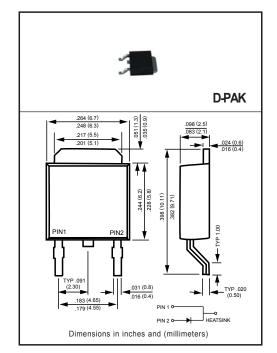
VOLTAGE RANGE 20 to 200 Volts CURRENT 8.0 Ampere

FEATURES

- * High reliability
- * Low switching loss
- * Low forward voltage drop
- * High current capability
- * High switching capability

MECHANICAL DATA

- * Epoxy: Device has UL flammability classification 94V-O
- * Case: Molded plastic
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting: position: Any
- * Weight: 0.33 grams



Volts

Volts

Volts

Amps

Amps

°C/W

рF

⁰ C ٥C

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%.

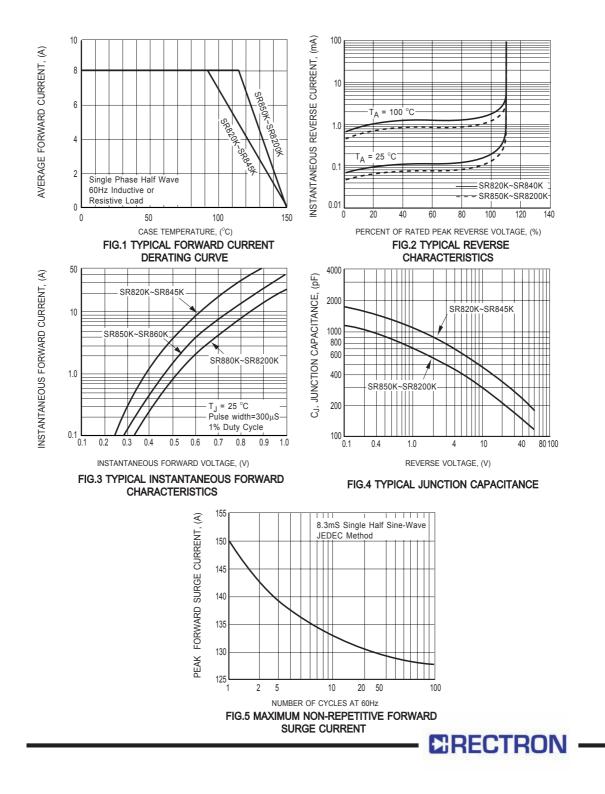
MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted) SYMBOL SR820K SR830K SR8150K SR8200K UNITS RATINGS SR835K SR840K SR845K SR850K SR860K SR880K SR8100K Maximum Recurrent Peak Reverse Voltage V_{RRM} 20 30 35 40 45 50 60 80 100 150 200 Maximum RMS Voltage 140 V_{RMS} 14 21 25 28 32 35 42 56 70 105 Maximum DC Blocking Voltage 20 30 35 40 45 50 60 80 100 150 200 VDC Maximum Average Forward Rectified Current l_o 8.0 at Derating Case Temperature Peak Forward Surge Current 8.3 ms single half sine-wave 150 IFSM superimposed on rated load (JEDEC method) $R_{\theta JA}$ 60 Typical Thermal Resistance (Note 1) $R_{\,\theta\,J\,C}$ 3 Typical Junction Capacitance (Note 2) 700 450 C. Operating Temperature Range ΤJ 150 Storage Temperature Range T_{STG} -55 to + 150

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

CHARACTERISTICS		SYMBOL	SR820K	SR830K	SR835K	SR840K	SR845K	SR850K	SR860K	SR880K	SR8100K	SR8150K	SR8200K	UNITS
Maximum Instantaneous Forward Voltage at 8.0A DC		VF	.65					.75		.85			Volts	
Maximum Average Reverse Current	@T _A = 25°C		0.2											mA
at Rated DC Blocking Voltage	@T _A = 100°C	I _R	2											mA
NOTES: 1. Thermal Resistance : Heat-sink case mounted or if PCB mounted.											2006-12			

NOTES: 1. Thermal Resistance : Heat-sink case mounted or if PCB mounted.
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
3. "Fully ROHS compliant", "100% Sn plating (Pb-free)".
4. Suffix "F" for Reverse Polarity.
5. Suffix "S" for D2-PAK Pkg.





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.

