



## SCHOTTKY BARRIER RECTIFIER

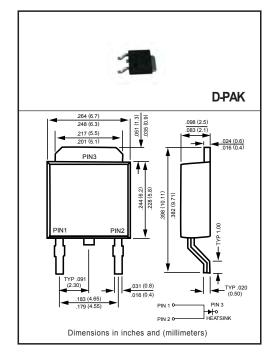
VOLTAGE RANGE 20 to 200 Volts CURRENT 5.0 Ampere

#### **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



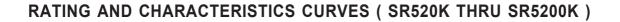
### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

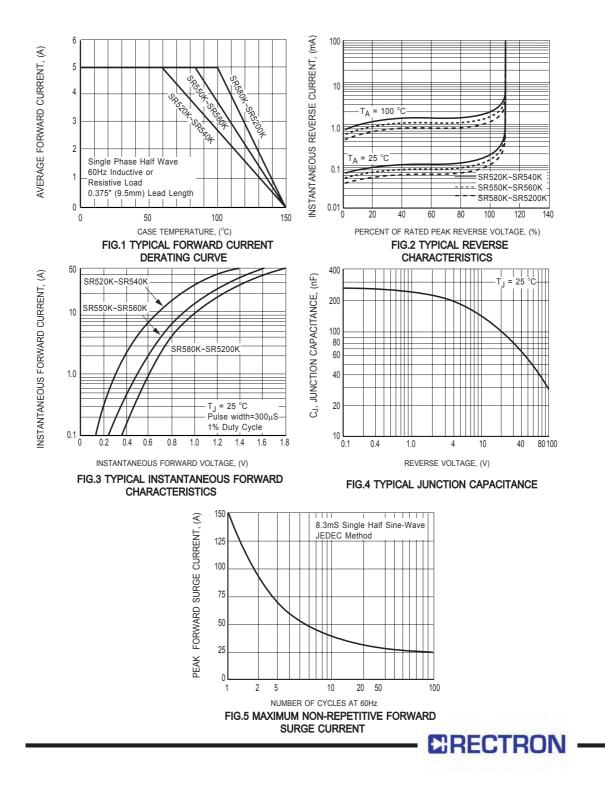
Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

#### MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted) SYMBOL SR520K SR530K SR540K SR550K SR560K SR580K SR5100K SR5150K SR5200K UNITS RATINGS Maximum Recurrent Peak Reverse Voltage V<sub>RRM</sub> 20 30 40 50 60 80 100 150 200 Volts Maximum RMS Voltage V<sub>RMS</sub> 14 21 28 35 42 56 70 105 140 Volts Maximum DC Blocking Voltage 20 30 40 50 60 80 100 150 200 Volts V<sub>DC</sub> Maximum Average Forward Rectified Current l<sub>o</sub> 5.0 Amps at Derating Case Temperature Peak Forward Surge Current 8.3 ms single half sine-wave 150 IFSM Amps superimposed on rated load (JEDEC method) $R_{\theta JA}$ 60 Typical Thermal Resistance (Note 1) °C/W $R_{\,\theta\,J\,C}$ 3 Typical Junction Capacitance (Note 2) pF 200 C. Operating Temperature Range ТJ 150 <sup>0</sup> C ٥C Storage Temperature Range T<sub>STG</sub> -55 to + 150 ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

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CHARACTERISTICS		SYMBOL	SR520K SR530K	SR540K	SR550K	SR560K	SR580K	SR5100K	SR5150K	SR5200K	UNITS
Maximum Instantaneous Forward Voltage at 5.0A DC		VF	.55		.7	.75 .85			Volts		
Maximum Average Reverse Current	@T <sub>A</sub> = 25°C		0.2								mA
at Rated DC Blocking Voltage	@T <sub>A</sub> = 100°C	IR	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.





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