



SCHOTTKY BARRIER RECTIFIER

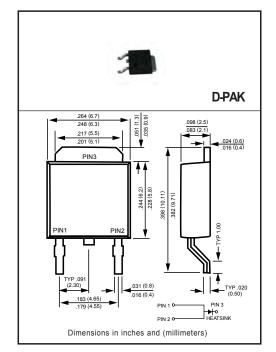
VOLTAGE RANGE 20 to 200 Volts CURRENT 5.0 Ampere

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



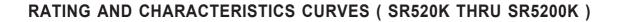
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

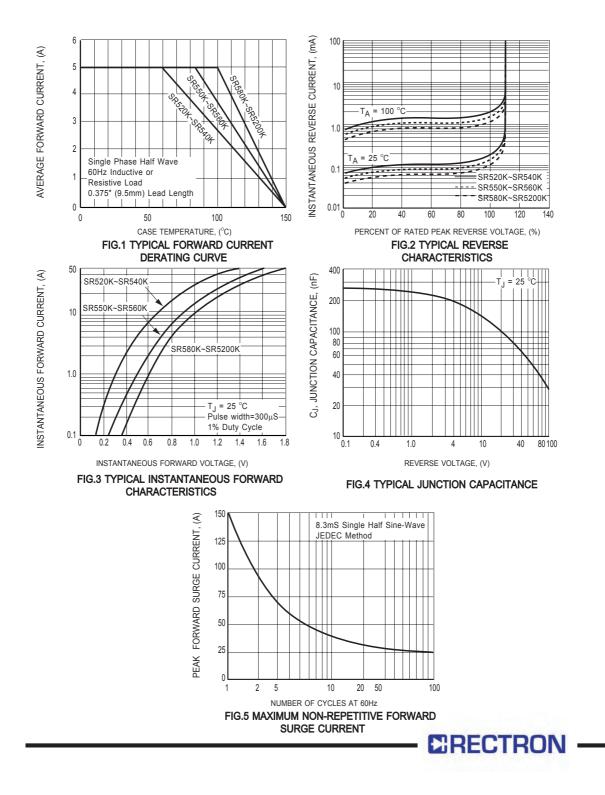
Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

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_{RRM} 20 30 40 50 60 80 100 150 200 Volts Maximum RMS Voltage V_{RMS} 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_{DC} Maximum Average Forward Rectified Current l_o 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 ⁰ C ٥C Storage Temperature Range T_{STG} -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 _A = 25°C | | 0.2 | | | | | | | | mA |
| at Rated DC Blocking Voltage | @T _A = 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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