

SR3150 THRU SR3200 3.0 AMP SCHOTTKY BARRIER RECTIFIERS



FEATURES

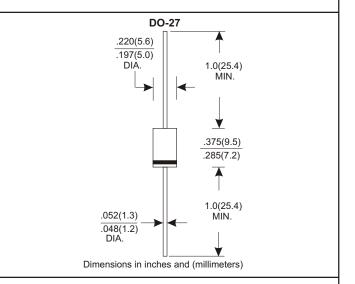
- * Low forward voltage drop
- * High current capability
- * High reliability
- * High surge current capability
- * Epitaxial construction

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: Axial leads, solderable per MIL-STD-202, method 208 guranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any

VOLTAGE RANGE 150 to 200 Volts CURRENT

3.0 Amperes



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature uniess otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

| TYPE NUMBER | | SR3150 | SR3200 | UNITS |
|--|-----------|-----------|--------|-------|
| Maximum Recurrent Peak Reverse Voltage | | 150 | 200 | V |
| Maximum RMS Voltage | | 105 | 140 | V |
| Maximum DC Blocking Voltage | | 150 | 200 | V |
| Maximum Average Forward Rectified Current | | | | |
| at TL=100°C | | 3.0 | | А |
| Peak Forward Surge Current, 8.3 ms single half | sine-wave | | | |
| superimposed on rated load (JEDEC method) | | 80 | | А |
| Maximum Instantaneous Forward Voltage at 3.0A | | 0.92 | | V |
| Maximum DC Reverse Current Ta= | =25°C | 0 | .5 | mA |
| at Rated DC Blocking Voltage Ta- | =100°C | 1 | 0 | mA |
| Typical Junction Capacitance (Note1) | | 250 | | PF |
| Typical Thermal Resistance RθJL (Note 2) | | 10 | | °C/W |
| Operating Temperature Range T _J | | -65 —+150 | | °C |
| Storage Temperature Range Тятс | | -65 —+150 | | °C |

NOTES:

- 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 2. Thermal Resistance Junction to Lead Vertical PC Board Mounting 0.5"(12.7mm) Lead Length.

RATING AND CHARACTERISTIC CURVES (SR3150 THRU SR3200)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

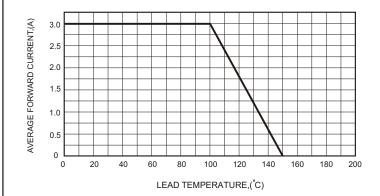


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

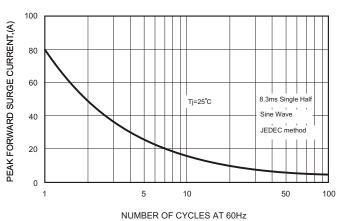


FIG.4-TYPICAL JUNCTION CAPACITANCE

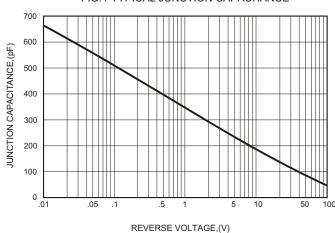


FIG.2-TYPICAL FORWARD

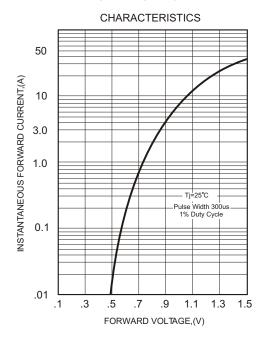


FIG.5 - TYPICAL REVERSE

