

SRF10150CT THRU SRF10200CT



10 AMP SCHOTTKY BARRIER RECTIFIERS



FEATURES

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

MECHANICAL DATA

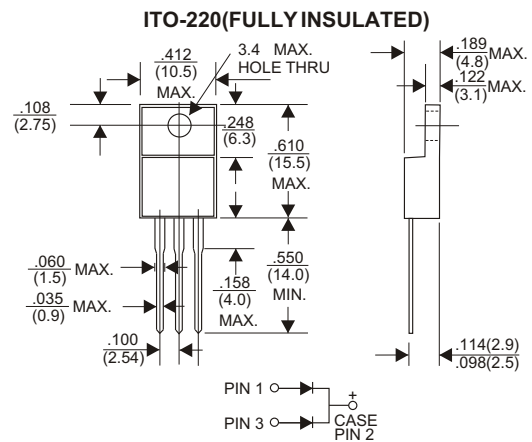
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: Lead solderable per MIL-STD-202, method 208 guaranteed
- * Polarity: As Marked
- * Mounting position: Any

VOLTAGE RANGE

150 to 200 Volts

CURRENT

10.0 Amperes



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

| TYPE NUMBER | SRF10150CT | SRF10200CT | 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 T _c =95°C | 10 | | A |
| Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | 150 | | A |
| Maximum Instantaneous Forward Voltage at 5A | 0.95 | | V |
| Maximum DC Reverse Current Ta=25°C | 0.5 | | mA |
| at Rated DC Blocking Voltage Ta=125°C | 15 | | mA |
| Typical Junction Capacitance (Note1) | 380 | | pF |
| Typical Thermal Resistance R _{θJC} (Note 2) | 3.0 | | °C/W |
| Operating Temperature Range T _j | -65 — +150 | | °C |
| Storage Temperature Range T _{stg} | -65 — +150 | | °C |

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance Junction to Case.

RATING AND CHARACTERISTIC CURVES (SRF10150CT THRU SRF10200CT)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

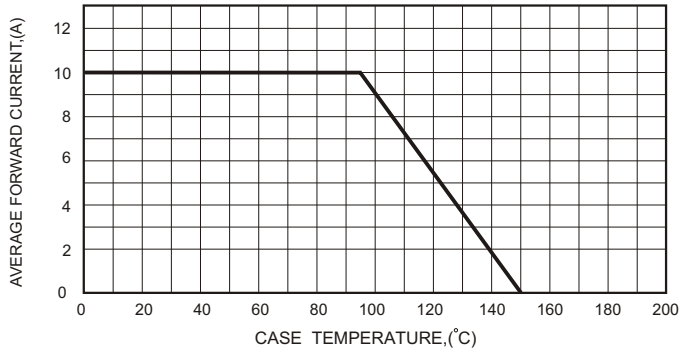


FIG.2-TYPICAL FORWARD CHARACTERISTICS

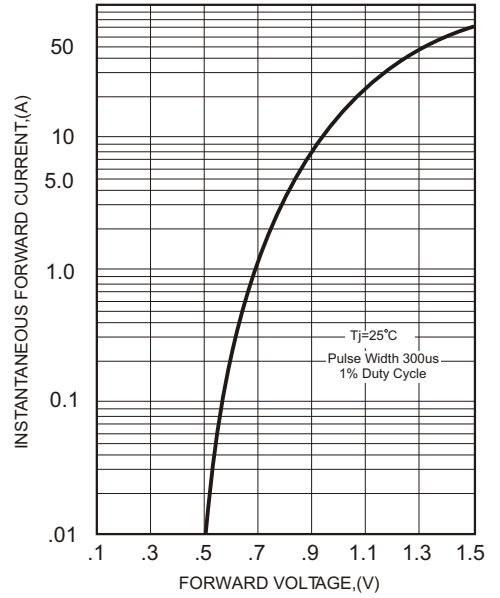


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

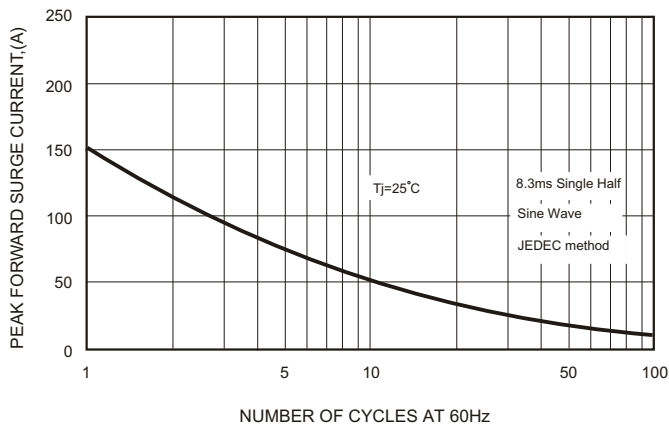


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

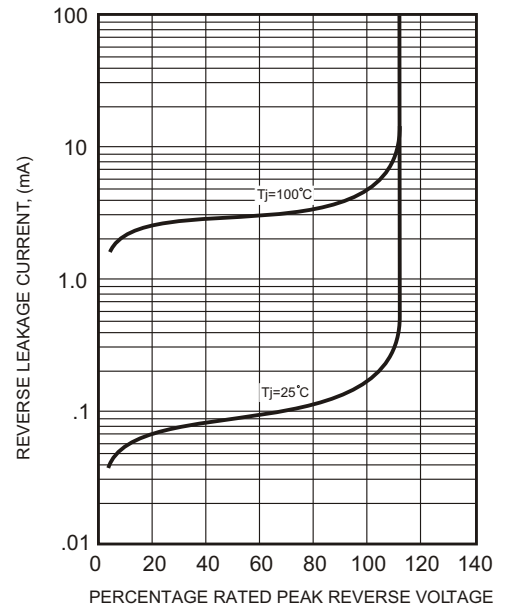
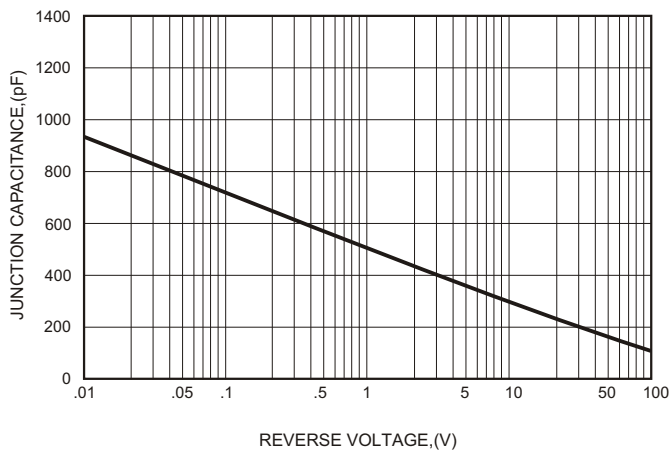


FIG.4-TYPICAL JUNCTION CAPACITANCE



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