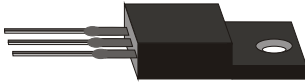


# SRF1080CT THRU SRF10100CT



10 AMP SCHOTTKY BARRIER RECTIFIERS



## FEATURES

- \* Low forward voltage drop
- \* High current capability
- \* High reliability
- \* High surge current capability
- \* Good for switching mode application

## MECHANICAL DATA

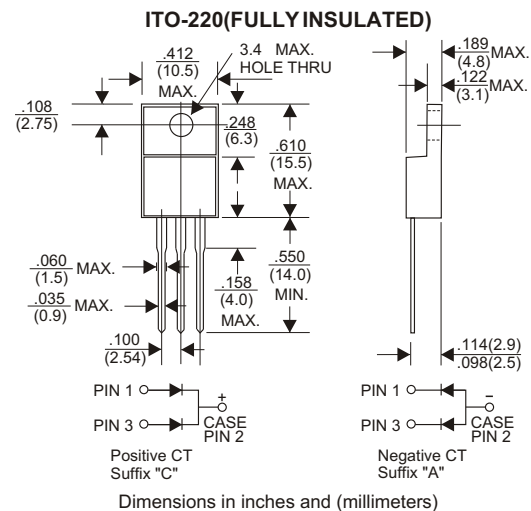
- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Lead: Lead solderable per MIL-STD-202, method 208 guaranteed
- \* Polarity: As Marked
- \* Mounting position: Any
- \* Weight: 2.05 grams

## VOLTAGE RANGE

80 to 100 Volts

## CURRENT

10 Ampere



## 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  | SRF1080CT  | SRF10100CT | UNITS |
|--|------------|------------|-------|
| Maximum Recurrent Peak Reverse Voltage   | 80         | 100        | V     |
| Maximum RMS Voltage  | 56         | 70         | V     |
| Maximum DC Blocking Voltage  | 80         | 100        | V     |
| Maximum Average Forward Rectified Current  | 10         |            | A     |
| .375"(9.5mm) Lead Length at Tc=125°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 10A   | 0.80       |            | V     |
| Maximum DC Reverse Current Ta=25°C   | 0.1        |            | mA    |
| at Rated DC Blocking Voltage Ta=125°C  | 15         |            | mA    |
| Typical Junction Capacitance (Note1)   | 300        |            | pF    |
| Typical Thermal Resistance R JA (Note 2)   | 3.0        |            | °C/W  |
| Operating Temperature Range Tj   | -55 — +150 |            | °C    |
| Storage Temperature Range Tstg   | -55 — +175 |            | °C    |

### NOTES:

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

## RATING AND CHARACTERISTIC CURVES (SRF1080CT THRU SRF10100CT)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

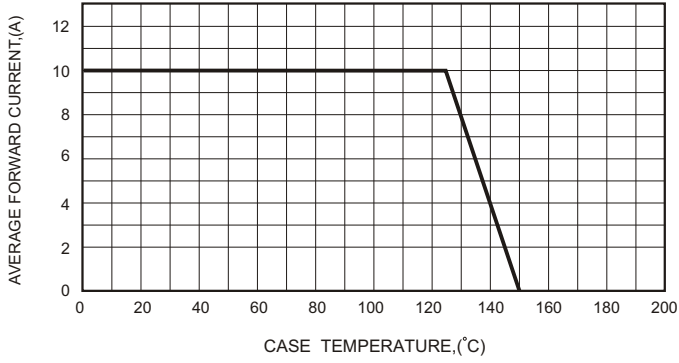


FIG.2-TYPICAL FORWARD CHARACTERISTICS

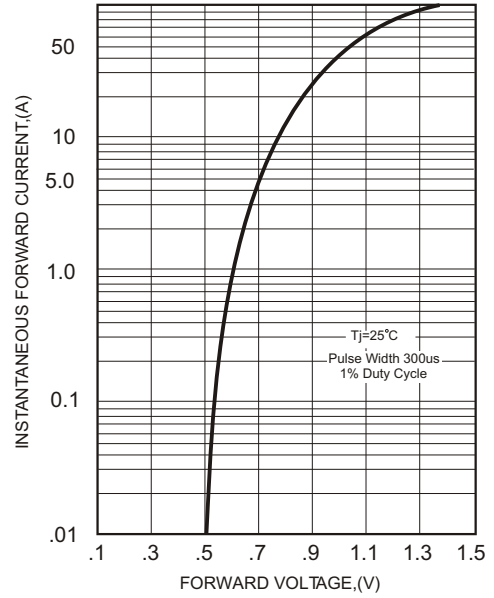


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

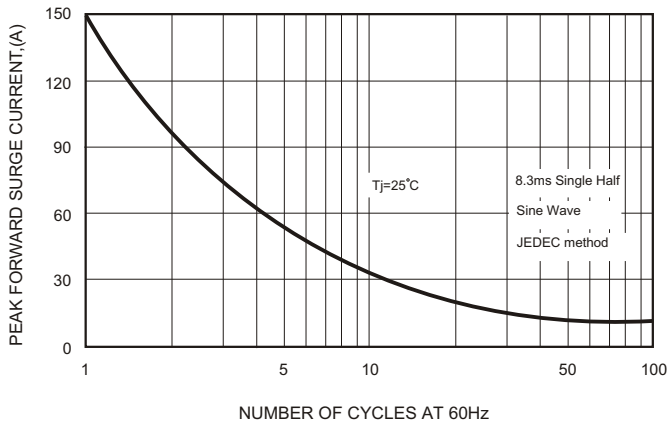


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

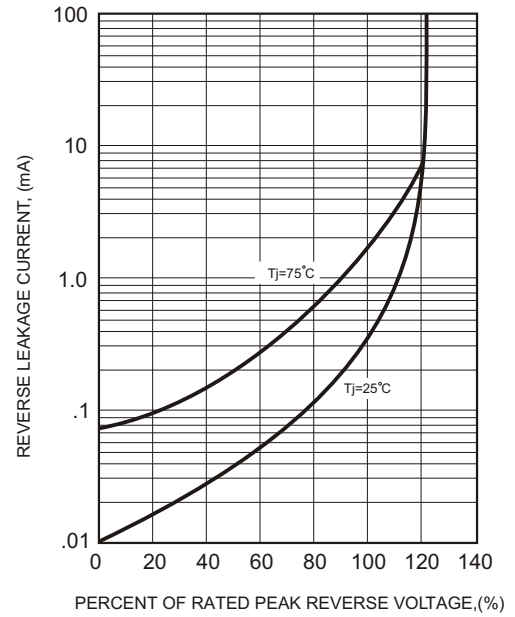


FIG.4-TYPICAL JUNCTION CAPACITANCE

