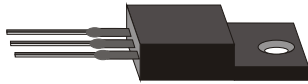


# SRF2020CT THRU SRF20100CT



## 20.0 AMP SCHOTTKY BARRIER RECTIFIERS



### FEATURES

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

### MECHANICAL DATA

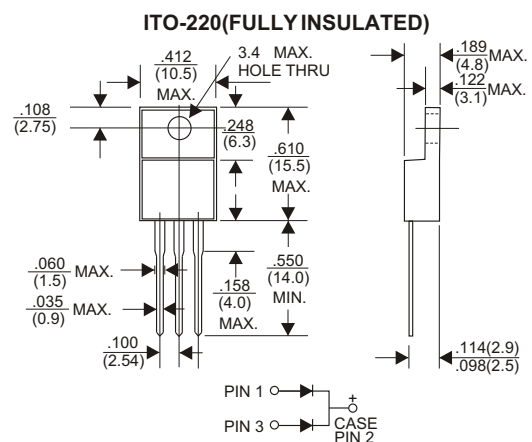
- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Lead: Lead solderable per MIL-STD-202, method 208 guaranteed
- \* Polarity: As Marked
- \* Mounting position: Any

### VOLTAGE RANGE

20 to 100 Volts

### CURRENT

20.0 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  | SRF 2020CT | SRF 2030CT | SRF 2040CT | SRF 2050CT | SRF 2060CT | SRF 2080CT | SRF 20100CT | UNITS      |      |
|--|------------|------------|------------|------------|------------|------------|-------------|------------|------|
| Maximum Recurrent Peak Reverse Voltage   | 20         | 30         | 40         | 50         | 60         | 80         | 100         | V          |      |
| Maximum RMS Voltage  | 14         | 21         | 28         | 35         | 42         | 56         | 70          | V          |      |
| Maximum DC Blocking Voltage  | 20         | 30         | 40         | 50         | 60         | 80         | 100         | V          |      |
| Maximum Average Forward Rectified Current  |            |            |            |            |            |            |             |            |      |
| at T <sub>c</sub> =95°C  |            |            |            |            |            |            |             | 20.0       | A    |
| Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) |            |            |            |            |            |            |             | 200        | A    |
| Maximum Instantaneous Forward Voltage per Leg at 10A   | 0.55       |            | 0.70       |            | 0.85       |            |             | V          |      |
| Maximum DC Reverse Current T <sub>a</sub> =25°C  |            |            |            |            |            |            |             | 0.5        | mA   |
| at Rated DC Blocking Voltage T <sub>a</sub> =100°C   |            |            |            |            |            |            |             | 50         | mA   |
| Typical Junction Capacitance (Note1)   |            |            |            |            |            |            |             | 500        | pF   |
| Typical Thermal Resistance R <sub>θJC</sub> (Note 2)   |            |            |            |            |            |            |             | 2.0        | °C/W |
| Operating Temperature Range T <sub>j</sub>   |            |            |            |            |            |            |             | -65 — +150 | °C   |
| Storage Temperature Range T <sub>stg</sub>   |            |            |            |            |            |            |             | -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 (SRF2020CT THRU SRF20100CT)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

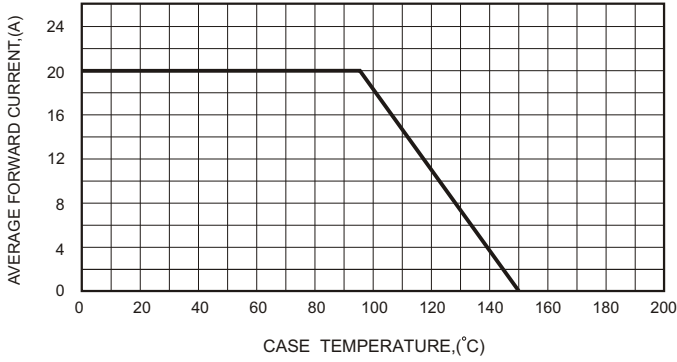


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

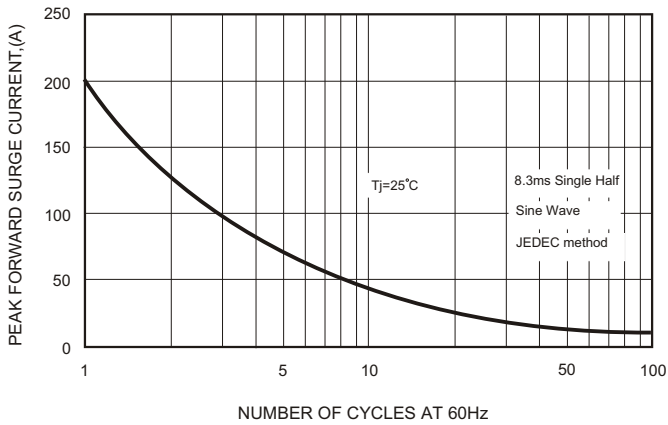


FIG.4-TYPICAL JUNCTION CAPACITANCE

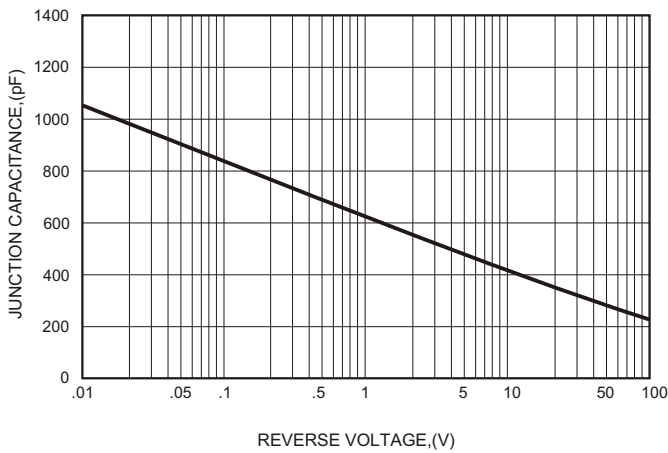


FIG.2-TYPICAL FORWARD CHARACTERISTICS

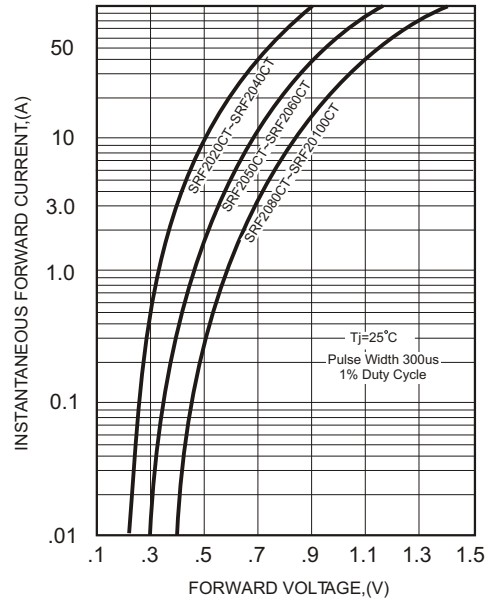
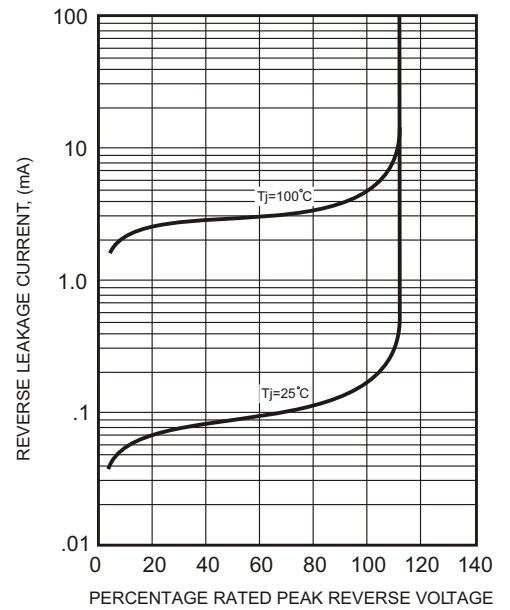


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



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[SBAT54CWT1G](#) [SBM30-03-TR-E](#) [SK310-T](#) [SK33A-TP](#) [SK34B-TP](#) [SS3003CH-TL-E](#) [PDS3100Q-7](#) [GA01SHT18](#) [CRS10I30A\(TE85L,QM](#)  
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