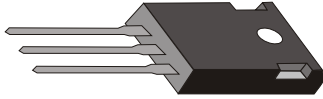


SRP4060CT



40.0 AMP SCHOTTKY BARRIER RECTIFIERS



FEATURES

- * High efficiency operation and Low power loss
- * Low stored charge majority carrier conduction
- * High reliability
- * High forward surge capability

MECHANICAL DATA

- * Circuit figure: Common Cathode
- * Mounting torque: 5 in-lbs maximum
- * Lead: Lead solderable per MIL-STD-202, method 208 guaranteed
- * Polarity: As Marked
- * Terminals: Puretin plated

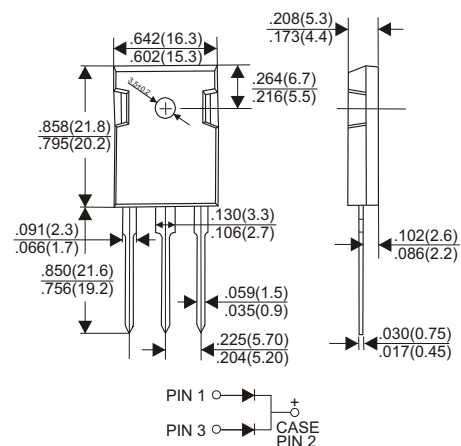
VOLTAGE RANGE

60 Volts

CURRENT

40.0 Amperes

TO-247



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 | SRP4060CT | UNITS |
|--|------------|-------|
| Maximum Recurrent Peak Reverse Voltage | 60 | V |
| Maximum RMS Voltage | 42 | V |
| Maximum DC Blocking Voltage | 60 | V |
| Maximum Average Forward Rectified Current | | |
| See FIG.1 | 40.0 | A |
| Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | 400 | A |
| Maximum Instantaneous Forward Voltage per Leg at 20A | 0.75 | V |
| Maximum DC Reverse Current T _J =25 °C | 0.2 | mA |
| at Rated DC Blocking Voltage T _J =100 °C | 30 | mA |
| Typical Thermal Resistance R _{θJC} (Note 1) | 0.5 | °C/W |
| Operating Temperature Range T _J | 150 | °C |
| Storage Temperature Range T _{stg} | -40 — +150 | °C |

NOTES:

1. Thermal Resistance Junction to Case.

RATING AND CHARACTERISTIC CURVES (SRP4060CT)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

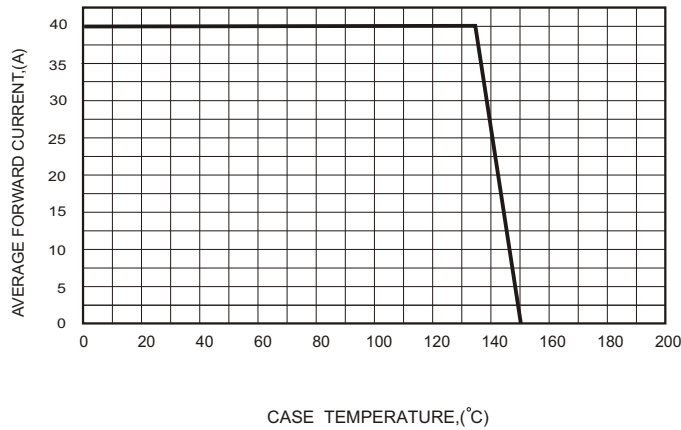


FIG.2-TYPICAL FORWARD CHARACTERISTICS

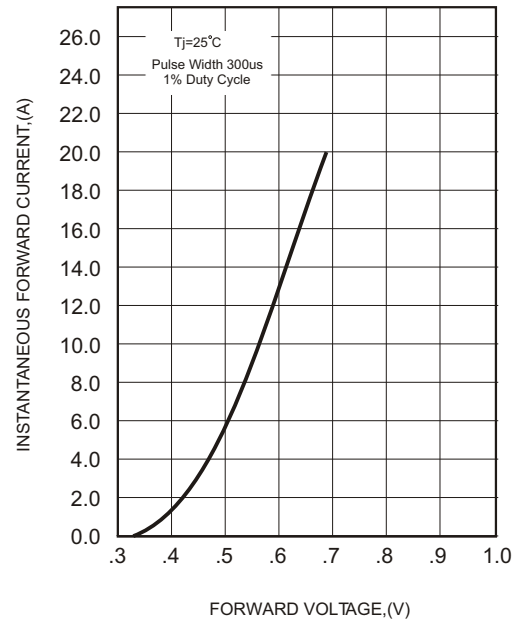


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

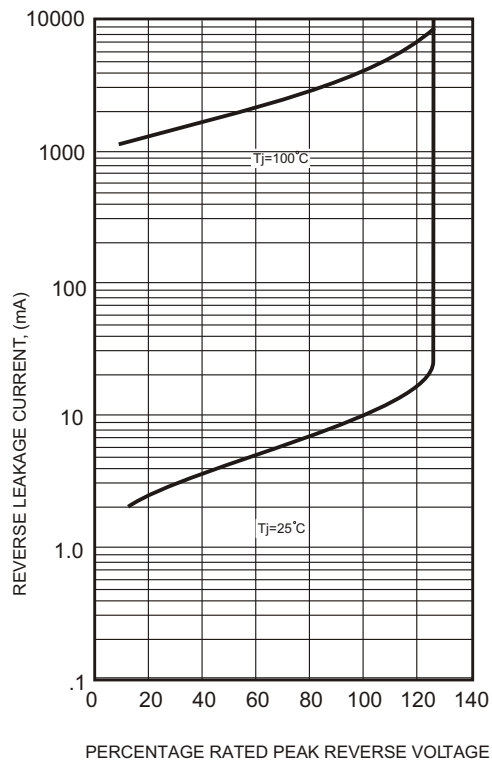


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

