

SRP60200CT



60.0 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

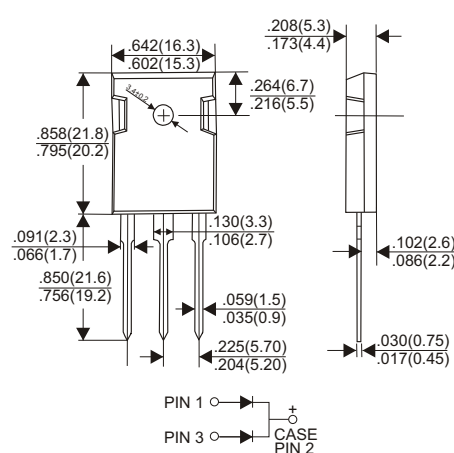
VOLTAGE RANGE

200 Volts

CURRENT

60.0 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	SRP60200CT	UNITS
Maximum Recurrent Peak Reverse Voltage	200	V
Maximum RMS Voltage	140	V
Maximum DC Blocking Voltage	200	V
Maximum Average Forward Rectified Current		
See FIG.1	60.0	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	600	A
Maximum Instantaneous Forward Voltage per Leg at 30A	0.90	V
Maximum DC Reverse Current T _J =25°C	0.1	mA
at Rated DC Blocking Voltage T _J =125°C	30	mA
Typical Thermal Resistance R _{θJC} (Note 1)	0.5	°C/W
Operating Temperature Range T _J	-40 — +150	°C
Storage Temperature Range T _{stg}	-40 — +150	°C

NOTES:

1. Thermal Resistance Junction to Case.

RATING AND CHARACTERISTIC CURVES (SRP60200CT)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

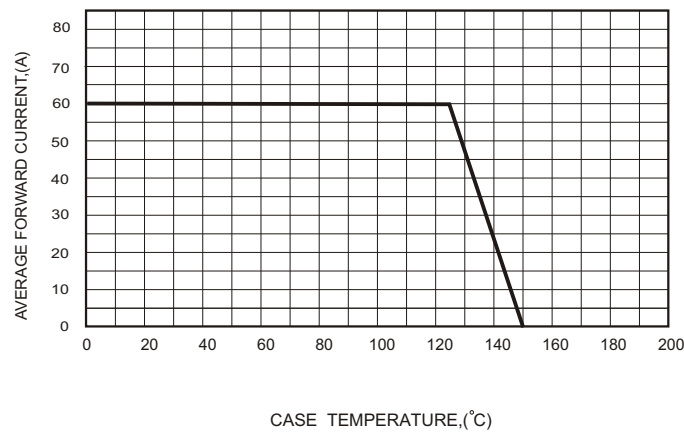


FIG.2-TYPICAL FORWARD CHARACTERISTICS

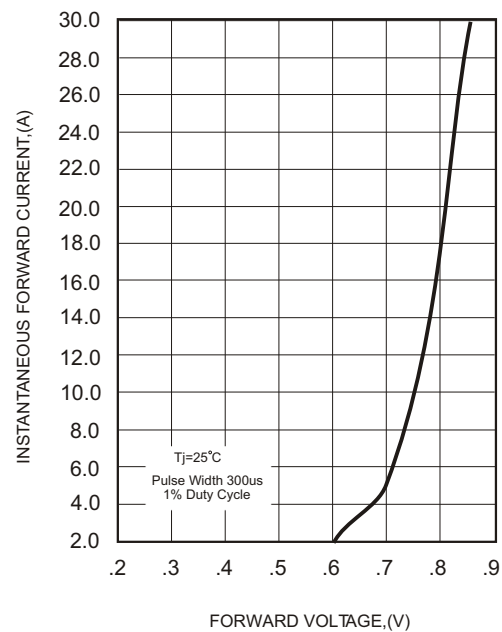


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

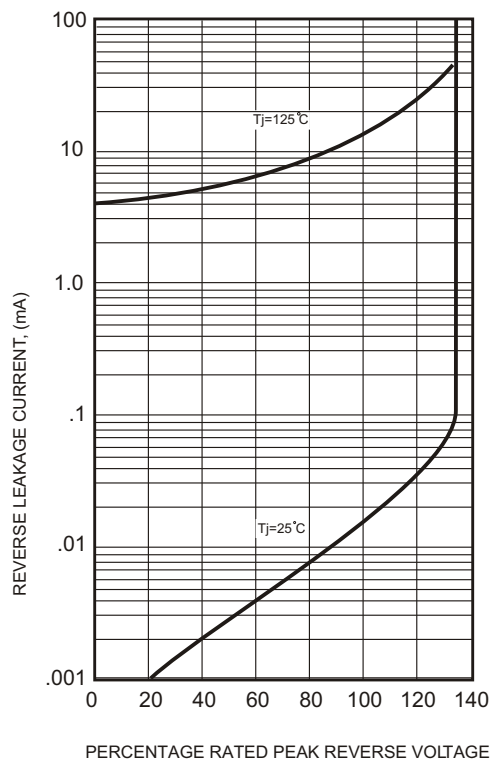


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

