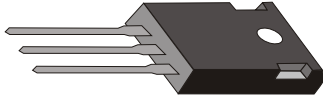


# SRP6060CT



## 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

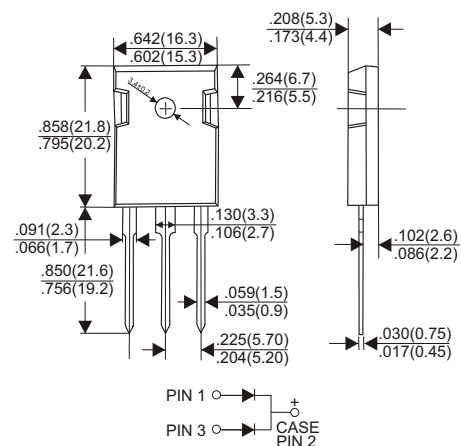
### VOLTAGE RANGE

60 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	SRP6060CT	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	60.0	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 30A	0.70	V
Maximum DC Reverse Current T <sub>J</sub> =25 °C	0.1	mA
at Rated DC Blocking Voltage T <sub>J</sub> =75 °C	30	mA
Typical Thermal Resistance R <sub>θJC</sub> (Note 1)	0.5	°C/W
Operating Temperature Range T <sub>J</sub>	-40 — +125	°C
Storage Temperature Range T <sub>stg</sub>	-40 — +125	°C

#### NOTES:

1. Thermal Resistance Junction to Case.

RATING AND CHARACTERISTIC CURVES (SRP6060CT)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

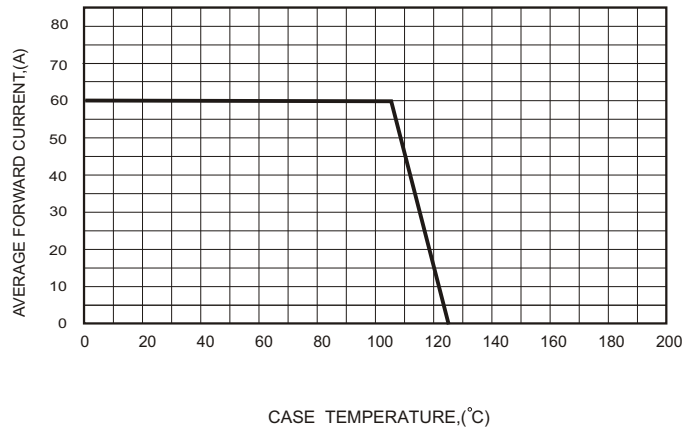


FIG.2-TYPICAL FORWARD CHARACTERISTICS

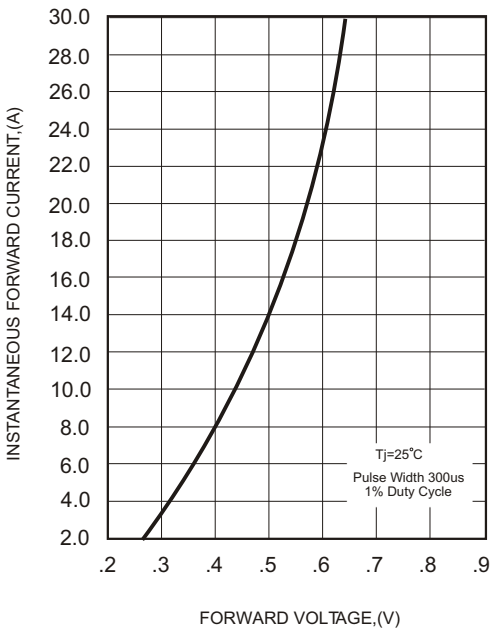


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

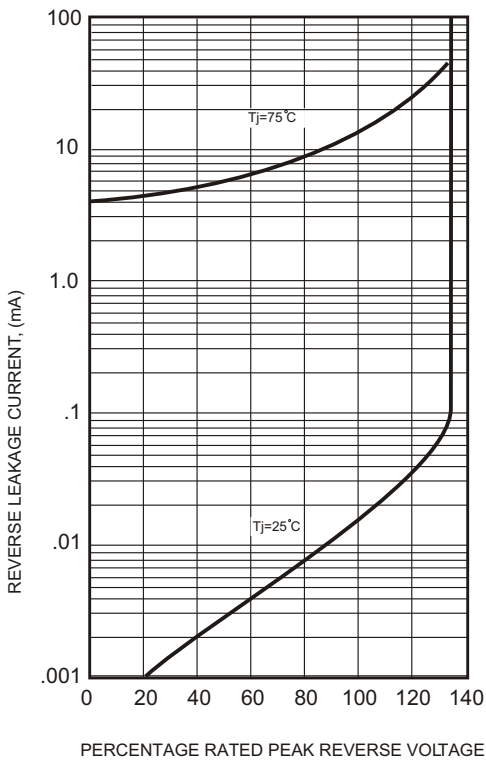


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

