

SRP3040CT THRU SRP30200CT

GW

30.0 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

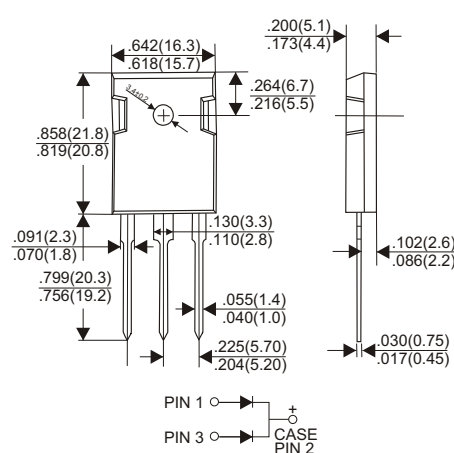
VOLTAGE RANGE

40 to 200 Volts

CURRENT

30.0 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	SRP 3040CT	SRP 3045CT	SRP 3060CT	SRP 30100CT	SRP 30150CT	SRP 30200CT	UNITS
Maximum Recurrent Peak Reverse Voltage	40	45	60	100	150	200	V
Maximum RMS Voltage	28	32	42	70	105	140	V
Maximum DC Blocking Voltage	40	45	60	100	150	200	V
Maximum Average Forward Rectified Current	30.0						A
See FIG.1							
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 15A	0.70	0.80	0.85	0.95			V
Maximum DC Reverse Current TA=25°C	0.1						mA
at Rated DC Blocking Voltage TA=125°C	30						mA
Typical Thermal Resistance RθJA (Note 1)	30						°C/W
Operating Temperature Range Tj	-55 — +150						°C
Storage Temperature Range Tstg	-55 — +150						°C

NOTES:

1. Thermal Resistance Junction to Ambient.

RATING AND CHARACTERISTIC CURVES (SRP3040CT THRU SRP30200CT)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

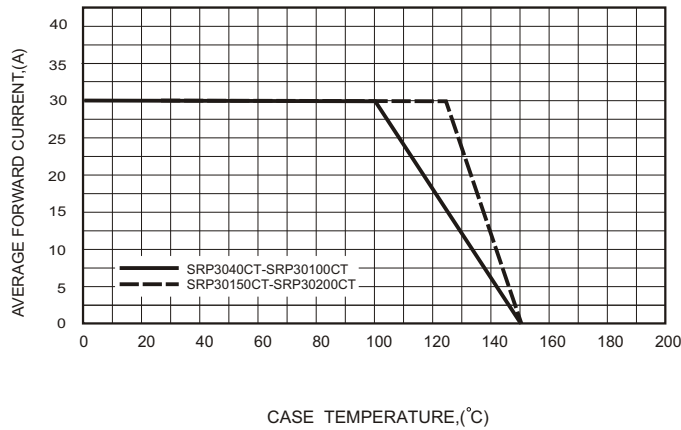


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

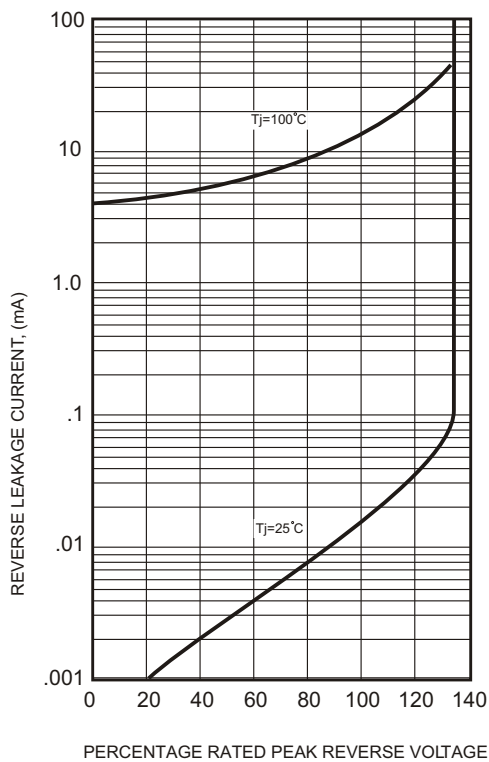


FIG.2-TYPICAL FORWARD CHARACTERISTICS

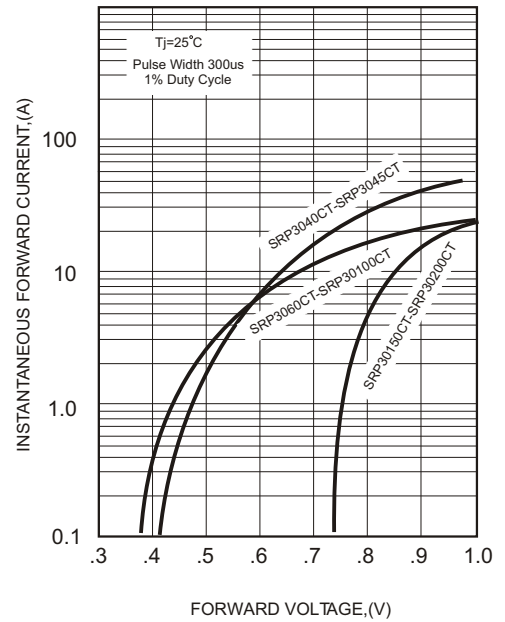


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

