SR3020CT THRU SR3060CT

30.0 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 guranteed
* Polarity: As Marked
* Mounting position: Any
* Weight: 2.24 grams

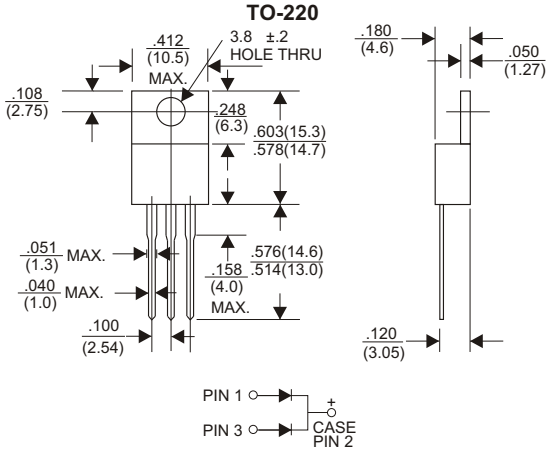
VOLTAGE RANGE

20 to 60 Volts

CURRENT

30.0 Amperes

TO-220



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25˚C ambient temperature uniess otherwies specified.
Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

TYPE NUMBER	SR3020 CT	SR3030 CT	SR3035 CT	SR3040 CT	SR3045 CT	SR3050 CT	SR3060 CT	UNITS
Maximum Recurrent Peak Reverse Voltage	20	30	35	40	45	50	60	V
Maximum RMS Voltage	14	21	24	28	31	35	42	V
Maximum DC Blocking Voltage	20	30	35	40	45	50	60	V
Maximum Average Forward Rectified Current at Tc=100˚C	30							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	250							A
Maximum Instantaneous Forward Voltage per Leg at 15A	0.55					0.65		V
Maximum DC Reverse Current Ta=25˚C	1.0							mA
at Rated DC Blocking Voltage Ta=100˚C	30							mA
Typical Thermal Resistance RθJC (Note 1)	2.0							˚C/W
Operating Temperature Range TJ	-65 — +150							˚C
Storage Temperature Range TSTG	-65 — +150							˚C

NOTES:

1. Thermal Resistance Junction to Case.

RATING AND CHARACTERISTIC CURVES (SR3020CT THRU SR3060CT)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

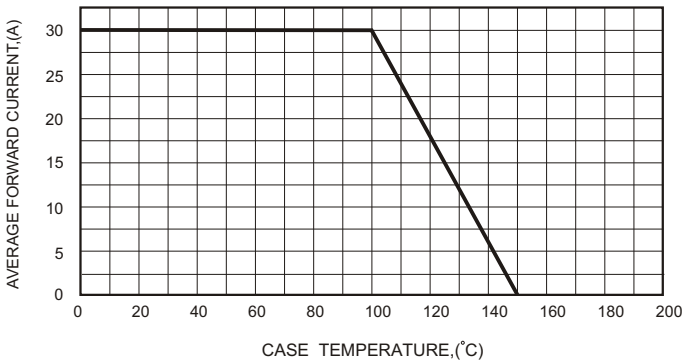


FIG.2-TYPICAL FORWARD CHARACTERISTICS

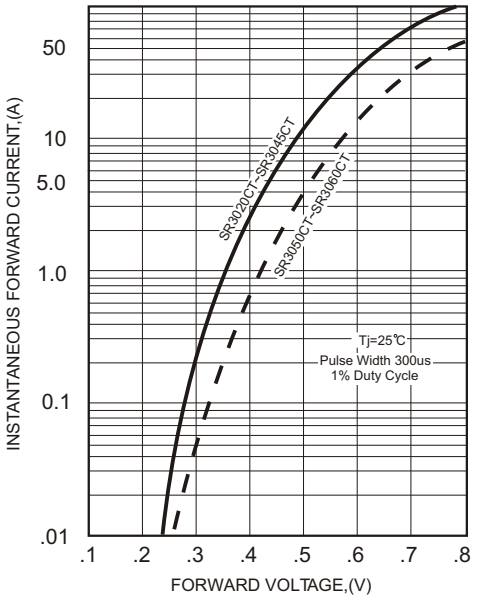


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

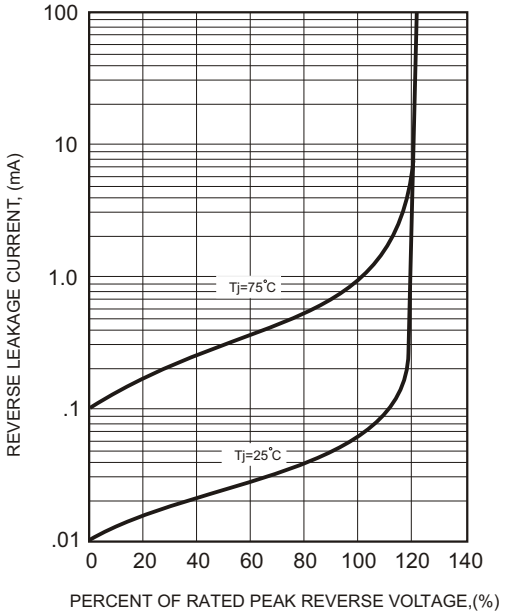


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT