

# 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

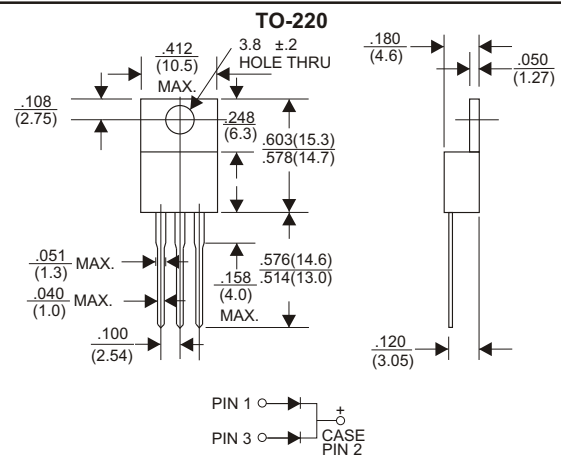
- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Lead: Lead solderable per MIL-STD-202, method 208 guaranteed
- \* Polarity: As Marked
- \* Mounting position: Any
- \* Weight: 2.24 grams

## VOLTAGE RANGE

20 to 60 Volts

## CURRENT

30.0 Amperes



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	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 T <sub>c</sub> =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 at Rated DC Blocking Voltage	T <sub>a</sub> =25°C			1.0				mA
	T <sub>a</sub> =100°C			30				mA
Typical Thermal Resistance R <sub>θJC</sub> (Note 1)	2.0							°C/W
Operating Temperature Range T <sub>j</sub>	-65 — +150							°C
Storage Temperature Range T <sub>stg</sub>	-65 — +150							°C

### NOTES:

1. Thermal Resistance Junction to Case.

## RATING AND CHARACTERISTIC CURVES (SR3020CT THRU SR3060CT)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

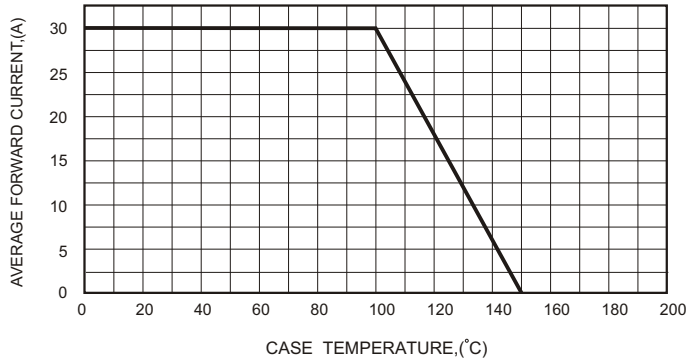


FIG.2-TYPICAL FORWARD CHARACTERISTICS

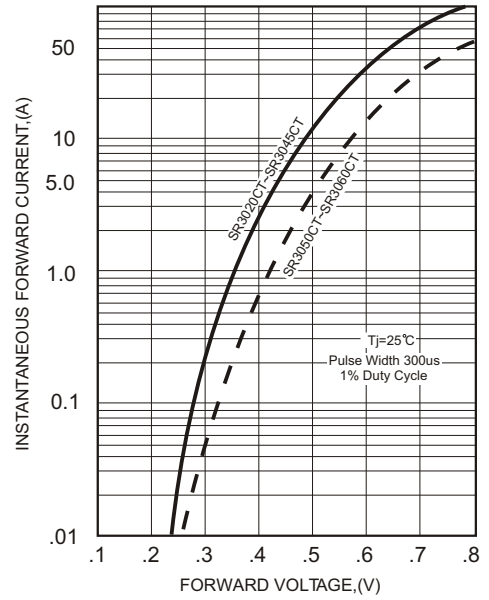


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

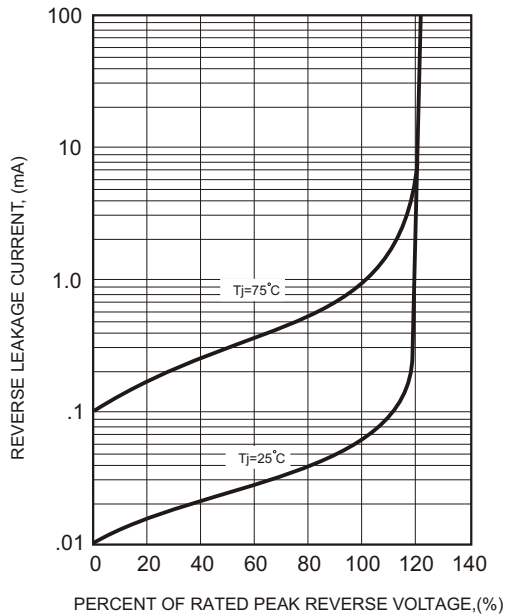


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

