SR3020 THRU SR3060

30.0 AMP SCHOTTKY BARRIER RECTIFIERS



FEATURES

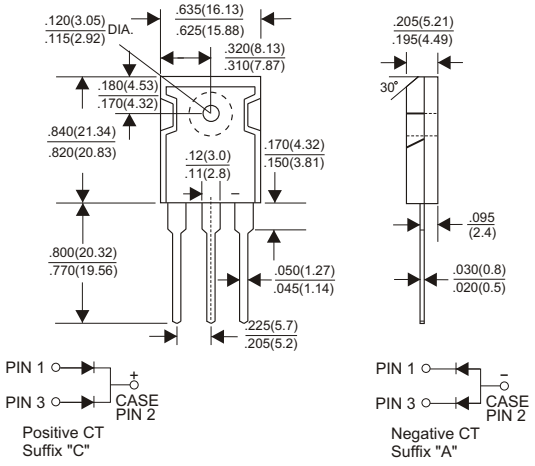
* Low forward voltage drop
* High current capability
* High reliability
* High surge current capability
* Epitaxial construction

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: 5.60 grams

VOLTAGE RANGE
20 to 60 Volts
CURRENT
30.0 Amperes

TO-247



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	SR3030	SR3035	SR3040	SR3045	SR3050	SR3060	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 See Fig. 1	30							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	300							A
Maximum Instantaneous Forward Voltage per Leg at 15.0A	0.65					0.75		V
Maximum DC Reverse Current Ta=25˚C	10							mA
at Rated DC Blocking Voltage Ta=100˚C	100							mA
Typical Thermal Resistance R JC (Note 1)	1.4							˚C/W
Operating Temperature Range T_J	-65 —+125					-65 —+150		˚C
Storage Temperature Range T_{STG}	-65 — +150							˚C

NOTES:

1. Thermal Resistance Junction to Case.

RATING AND CHARACTERISTIC CURVES (SR3020 THRU SR3060)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

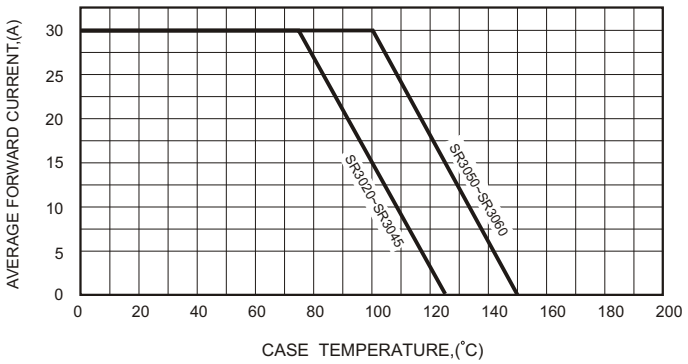


FIG.2-TYPICAL FORWARD CHARACTERISTICS

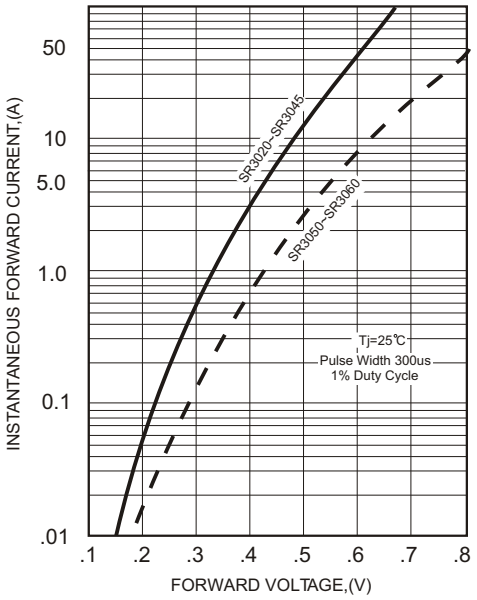


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

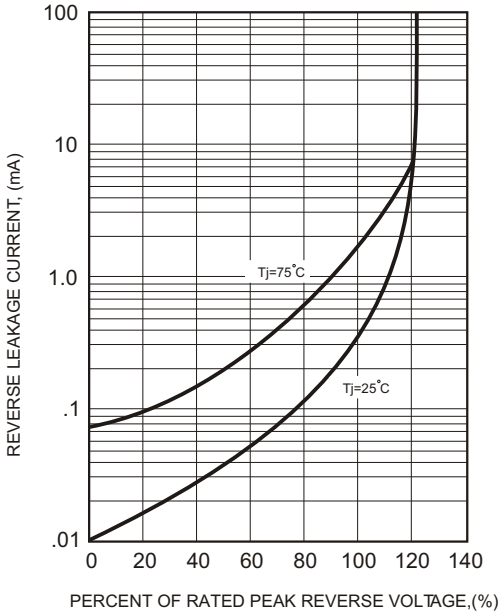


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

