



SR3020 THRU SR3060 30 A Schottky Barrier Rectifiers

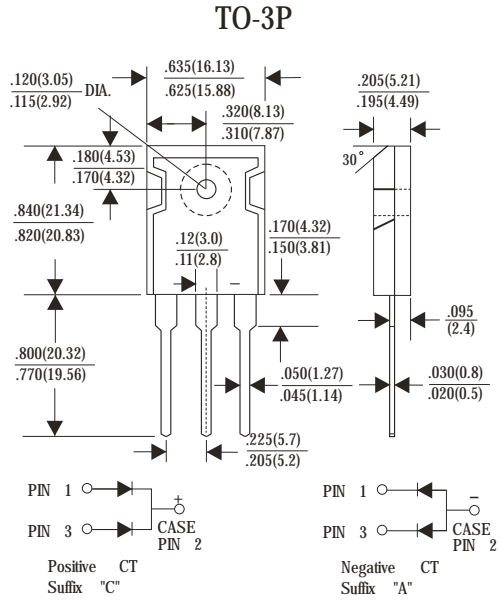
**Voltage Range 20 to 60 Volts
Current 30.0 Amperes**

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: 5.60 grams



Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified Single phase, half wave, 60 Hz, 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 Sinewave - Superimposed on Rated Load method (JEDEC)	250							A
Maximum Instantaneous Forward Voltage At 8.0A	0.65					0.75		V
Maximum D.C. Reverse Current @ T _A =25°C	1.0							mA
At Rated DC Blocking Voltage @ T _A =100°C	100							mA
Typical Thermal Resistance R _{JA} (Note 2)	1.4							°C/W
Operating Junction Temperature Range T _J	-50+125							°C
Storage Temperature Range T _{STG}	-65+150							°C

Notes:

1. Measured at 1MHz and applied reverse voltage of 4.0Volts D.C.
2. Thermal Resistance Junction to Case



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RATING AND CHARACTERISTIC CURVES (SR3020 THRU SR3060)

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

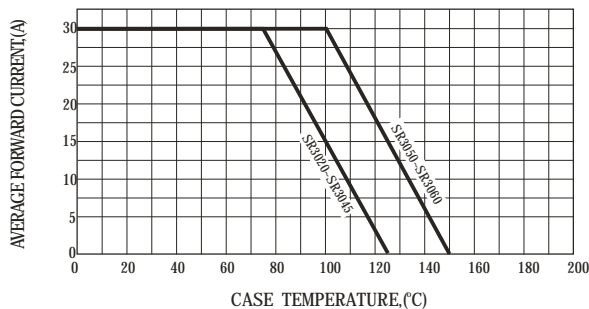


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

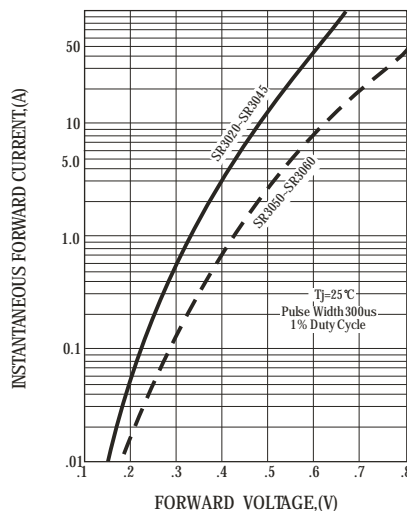


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

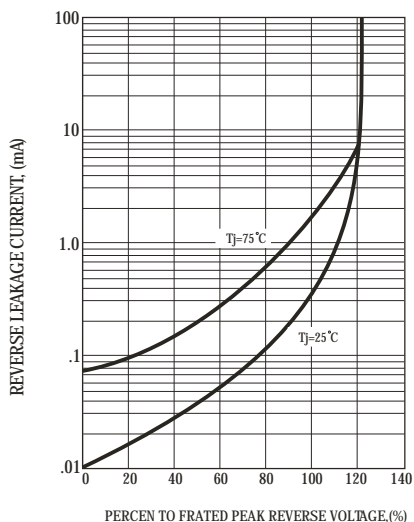


FIG. 4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

