



DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

**SR3020
THRU
SR3060**

TECHNICAL SPECIFICATIONS OF SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE - 20 to 60 Volts

CURRENT - 30 Amperes

FEATURES

- * Low switching noise
- * Low forward voltage drop
- * Low thermal resistance
- * High current capability
- * High switching capability
- * High surge capability
- * High reliability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: MIL-STD-202E, Method 208 guaranteed
- * Polarity: As marked
- * Mounting position: Any
- * Weight: 5.60 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

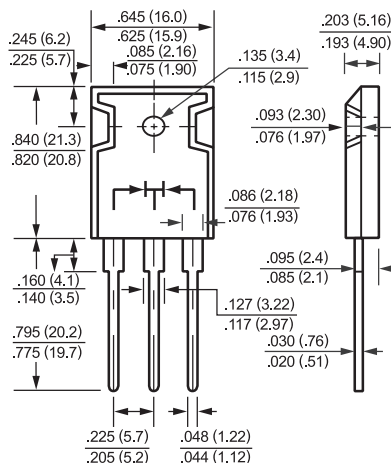
Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.



TO-3P



Dimensions in inches and (millimeters)

		SYMBOL	SR3020	SR3030	SR3040	SR3050	SR3060	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	20	30	40	50	60	Volts
Maximum RMS Voltage		VRMS	14	21	28	35	42	Volts
Maximum DC Blocking Voltage		VDC	20	30	40	50	60	Volts
Maximum Average Forward Rectified Current at Derating Case Temperature		IO	30					Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	300					Amps
Maximum Instantaneous Forward Voltage at 15.0A DC		VF	.65				.75	Volts
Maximum DC Reverse Current	@ Tc = 25°C	IR	5					mAmps
at Rated DC Blocking Voltage	@ Tc = 100°C		100					mAmps
Typical Thermal Resistance (Note 1)		RθJC	1.4					°C/W
Operating Temperature Range		TJ	-65 to + 150					°C
Storage Temperature Range		TSTG	-65 to + 150					°C

NOTES : 1. Thermal Resistance Junction to Case per leg.

2. Suffix "A" = Common Anode.

RATING AND CHARACTERISTIC CURVES (SR3020 THRU SR3060)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

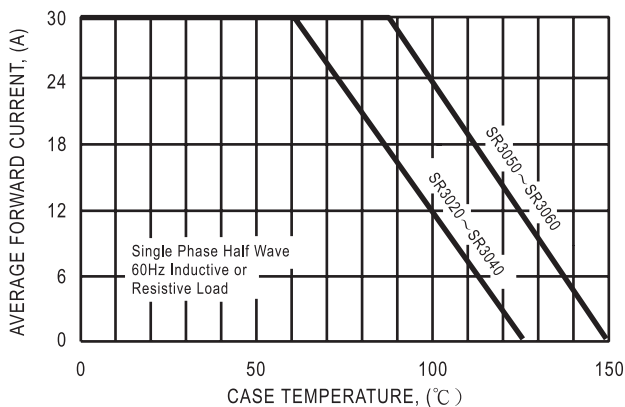


FIG. 3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

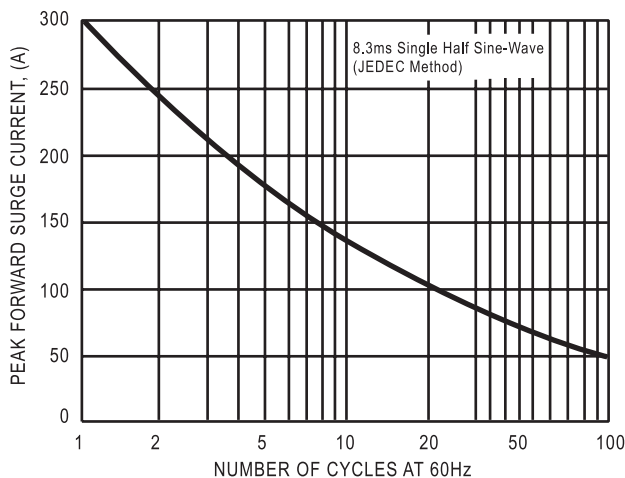


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

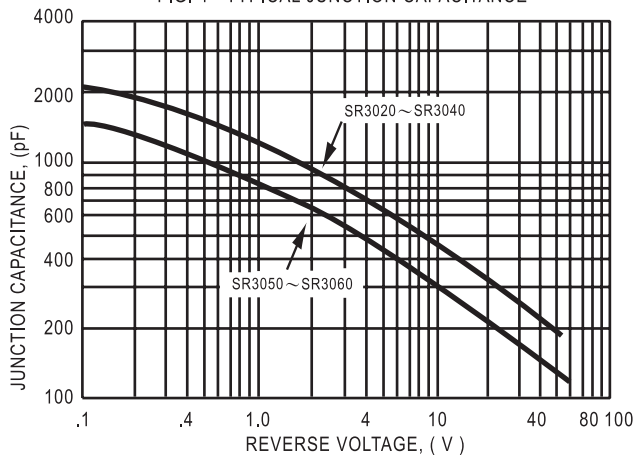


FIG. 2 - TYPICAL REVERSE CHARACTERISTICS

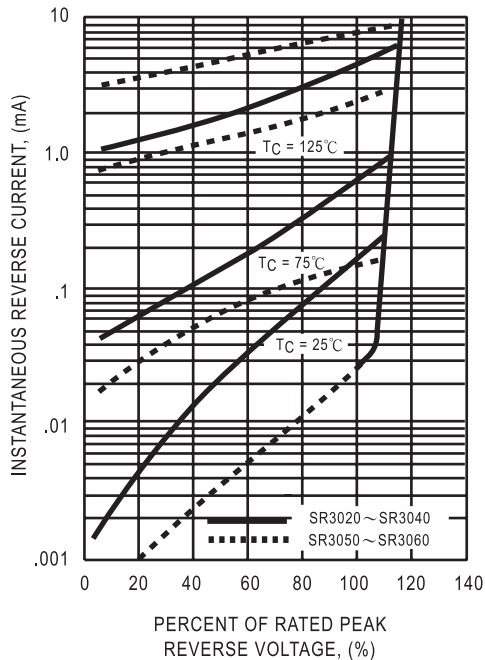
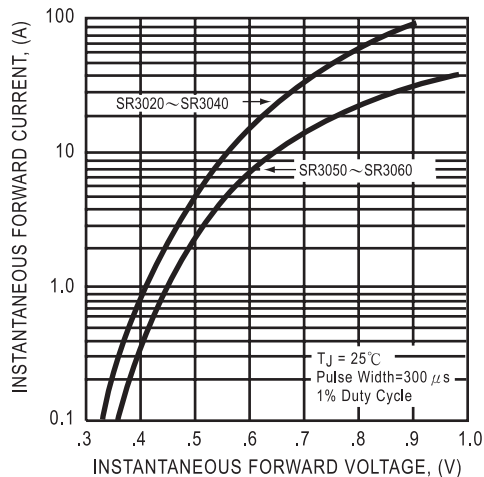


FIG. 5 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



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