



**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**

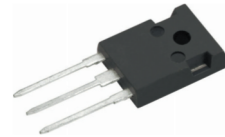
- \* Low switching noise
- \* Low forward voltage drop
- \* Low thermal resistance
- \* High current capability
- \* High switching capability
- \* High surge capability
- \* High reliability

**MECHANICAL DATA**

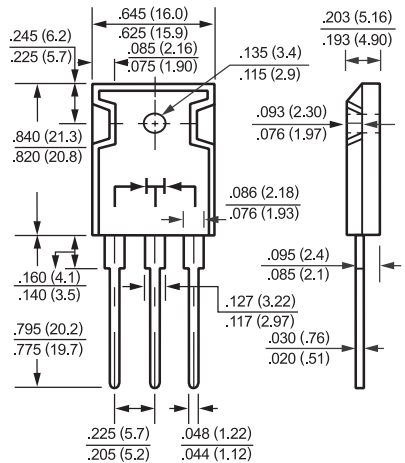
- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Lead: MIL-STD-202E, Method 208 guaranteed
- \* Polarity: As marked
- \* Mounting position: Any
- \* Weight: 5.60 grams

**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



	SYMBOL	SR3020	SR3030	SR3040	SR3050	SR3060	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	35	42	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	50	60	Volts
Maximum Average Forward Rectified Current at Derating Case Temperature	I <sub>O</sub>	30					Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	300					Amps
Maximum Instantaneous Forward Voltage at 15.0A DC	V <sub>F</sub>	.65			.75		Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@T <sub>c</sub> = 25°C	5					mAmps
	@T <sub>c</sub> = 100°C						
Typical Thermal Resistance (Note 1)	R <sub>θJC</sub>	1.4					°C/W
Operating Temperature Range	T <sub>J</sub>	-65 to + 150					°C
Storage Temperature Range	T <sub>STG</sub>	-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

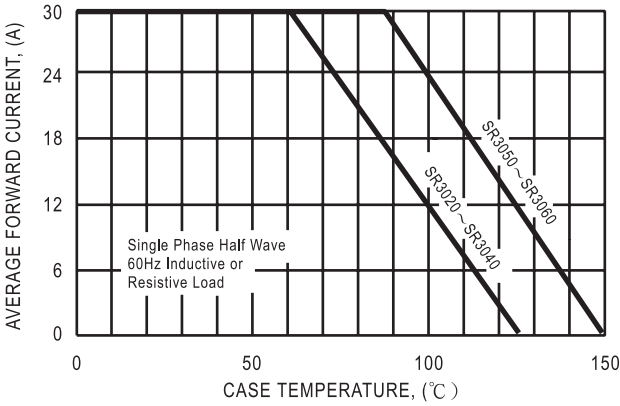


FIG. 3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

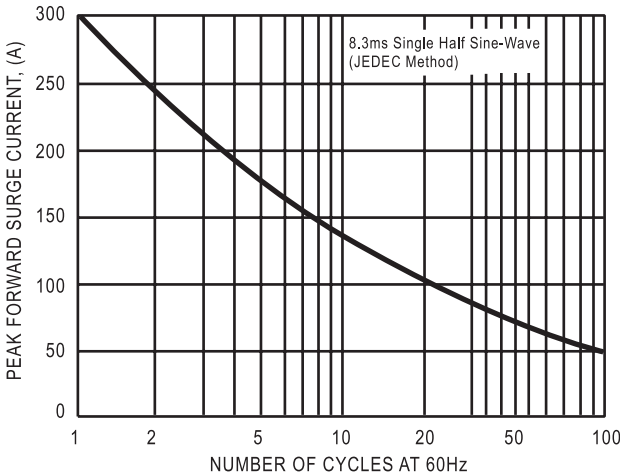


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

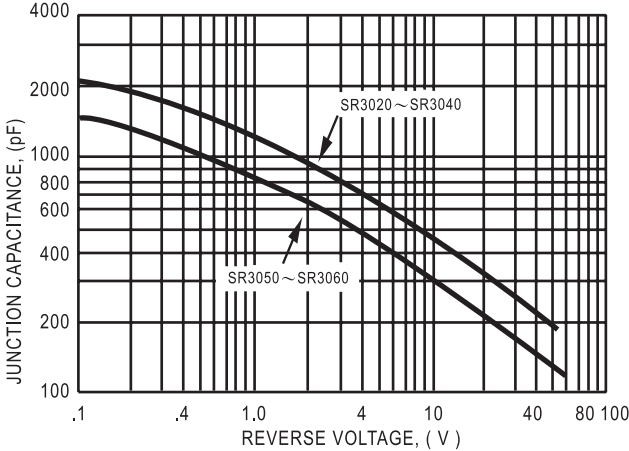


FIG. 2 - TYPICAL REVERSE CHARACTERISTICS

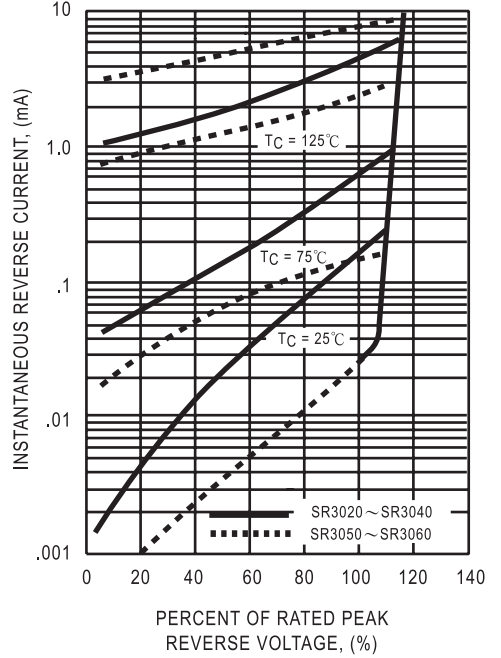
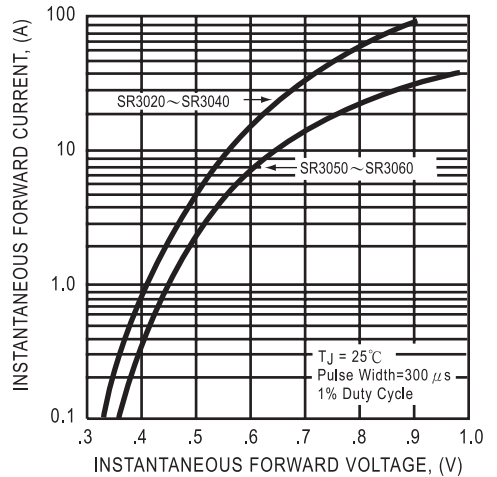


FIG. 5 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



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