



**DC COMPONENTS CO., LTD.**

RECTIFIER SPECIALISTS

**SR350  
THRU  
SR3100**

**TECHNICAL SPECIFICATIONS OF SCHOTTKY BARRIER RECTIFIER**

**VOLTAGE RANGE - 50 to 100 Volts**

**CURRENT - 3.0 Amperes**

**FEATURES**

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

**MECHANICAL DATA**

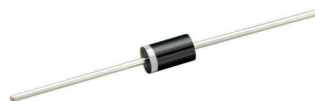
- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Lead: MIL-STD-202E, Method 208 guaranteed
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any
- \* Weight: 1.18 grams

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

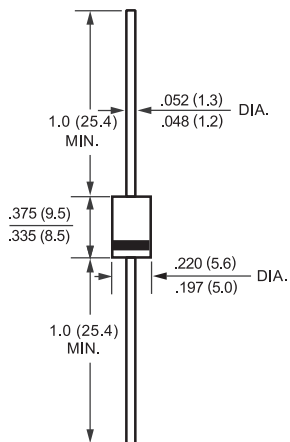
Ratings at 25 °C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%.



**DO-27**



Dimensions in inches and (millimeters)

		SYMBOL	SR350	SR360	SR380	SR3100	UNITS
Maximum Recurrent Peak Reverse Voltage		V <sub>RRM</sub>	50	60	80	100	Volts
Maximum RMS Voltage		V <sub>RMS</sub>	35	42	56	70	Volts
Maximum DC Blocking Voltage		V <sub>DC</sub>	50	60	80	100	Volts
Maximum Average Forward Rectified Current .375*(9.5mm) lead length		I <sub>O</sub>	3.0				Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		I <sub>FSM</sub>	80				Amps
Maximum Instantaneous Forward Voltage at 3.0A DC		V <sub>F</sub>	.75		.85		Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ T <sub>A</sub> = 25°C	I <sub>R</sub>	3.0				mAmps
	@ T <sub>A</sub> = 100°C		30				mAmps
Typical Thermal Resistance (Note 1)		R θ J A	30				°C/W
Typical Junction Capacitance (Note 2)		C <sub>J</sub>	200				pF
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 Ambient): Vertical PC Board Mounting, 0.5\*(12.7mm) Lead Length.

2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

## RATING AND CHARACTERISTIC CURVES (SR350 THRU SR3100)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

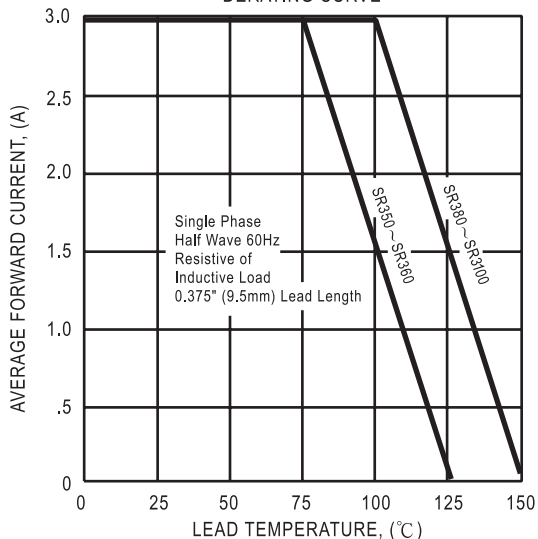


FIG. 2 - TYPICAL REVERSE CHARACTERISTICS

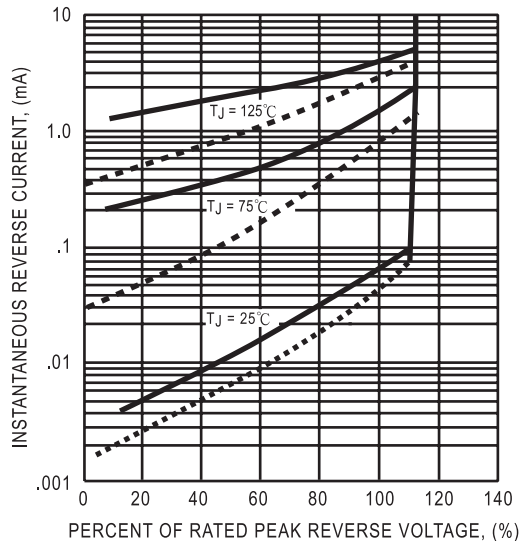


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

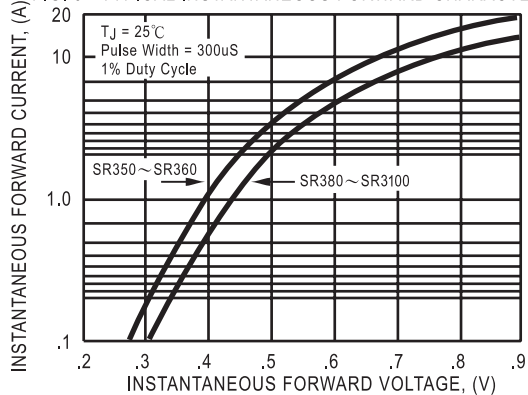


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

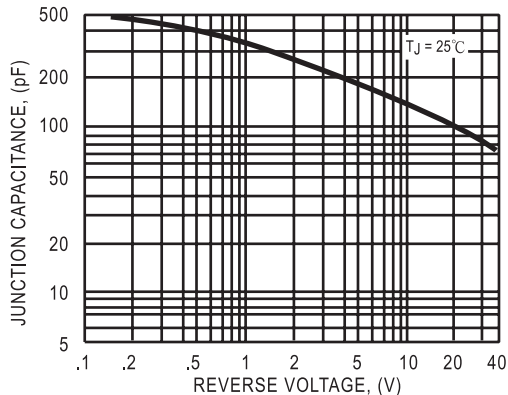
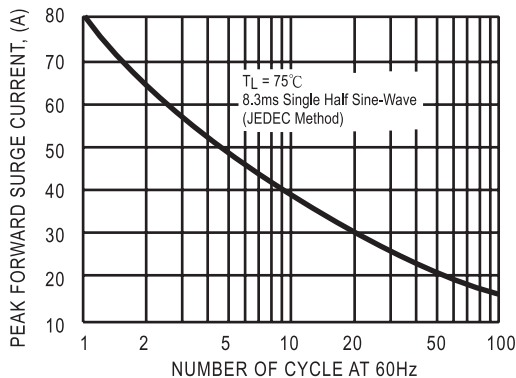


FIG. 5 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



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