



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

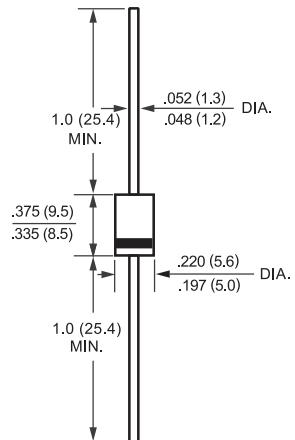
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: MIL-STD-202E, Method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 1.18 grams

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		VRRM	50	60	80	100	Volts
Maximum RMS Voltage		VRMS	35	42	56	70	Volts
Maximum DC Blocking Voltage		VDC	50	60	80	100	Volts
Maximum Average Forward Rectified Current .375*(9.5mm) lead length		IO	3.0				Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	80				Amps
Maximum Instantaneous Forward Voltage at 3.0A DC		VF	.75		.85		Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ TA = 25°C	IR	3.0				mAmps
	@ TA = 100°C		30				mAmps
Typical Thermal Resistance (Note 1)		RθJA	30				°C/W
Typical Junction Capacitance (Note 2)		CJ	200				pF
Operating Temperature Range		TJ	-65 to + 150				°C
Storage Temperature Range		TSTG	-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

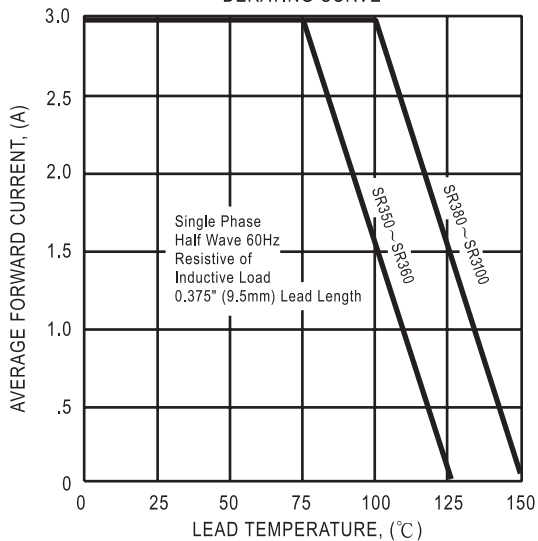


FIG. 2 - TYPICAL REVERSE CHARACTERISTICS

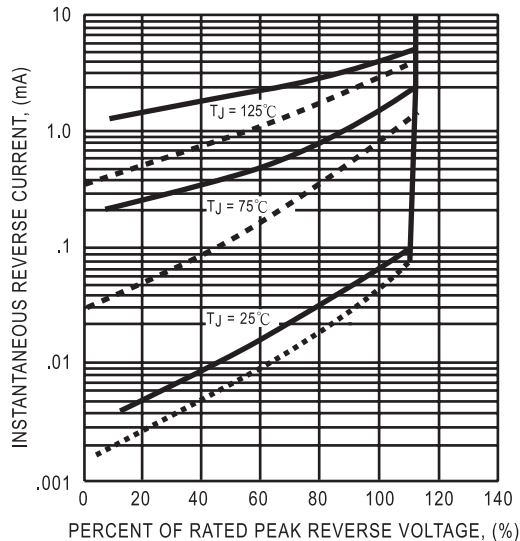


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

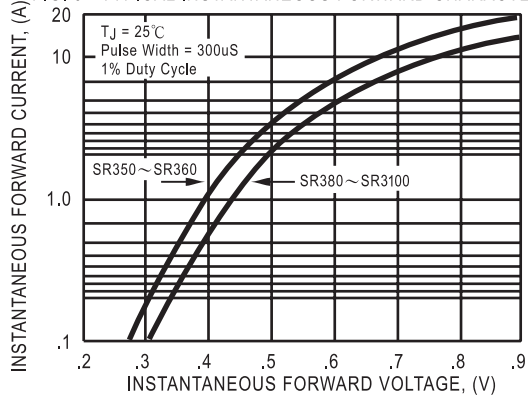


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

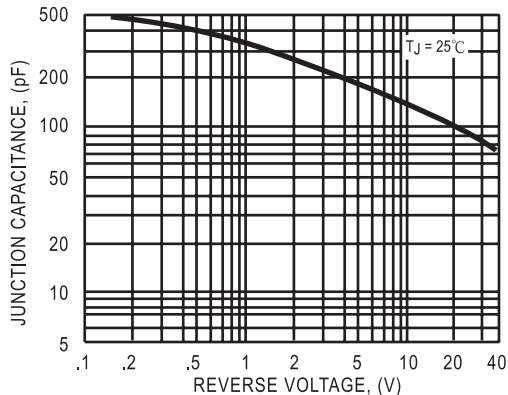
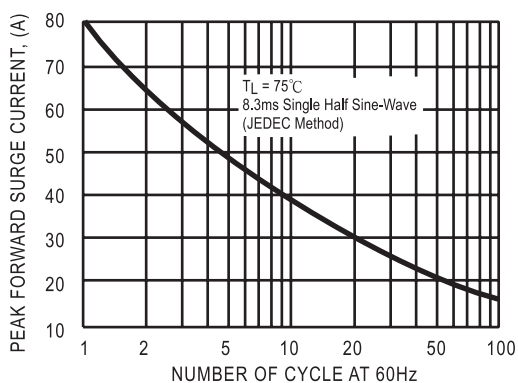


FIG. 5 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



DC COMPONENTS CO., LTD.