



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

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

MECHANICAL DATA

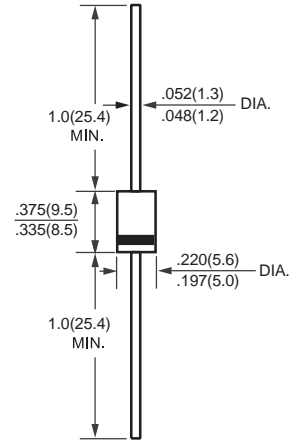
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: MIL-STD-202E, Method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 1.18 grams

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 5.0A DC	VF	.75		.85		Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ TA = 25°C	5.0				mAmps
	@ TA = 100°C					
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

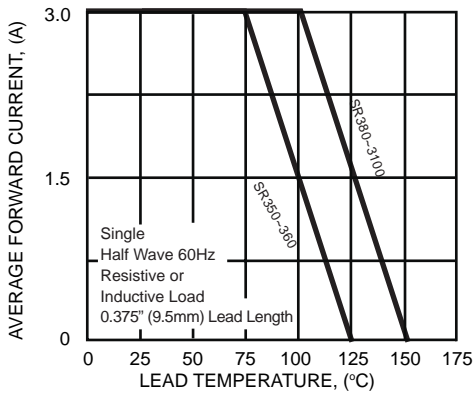


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

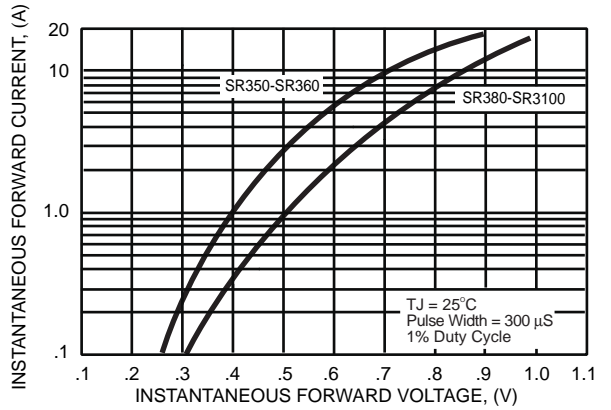


FIG. 3A - TYPICAL REVERSE CHARACTERISTICS

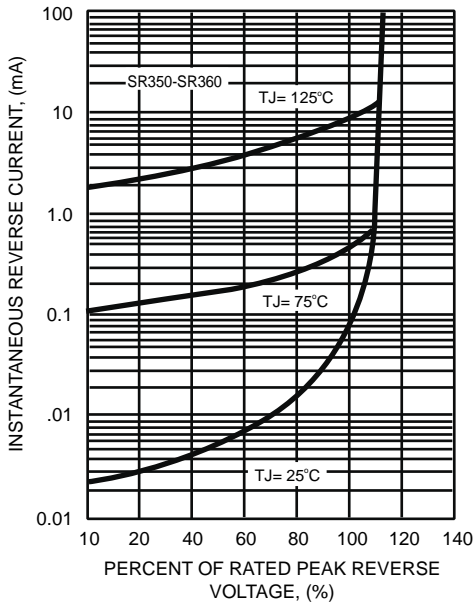


FIG. 3B - TYPICAL REVERSE CHARACTERISTICS

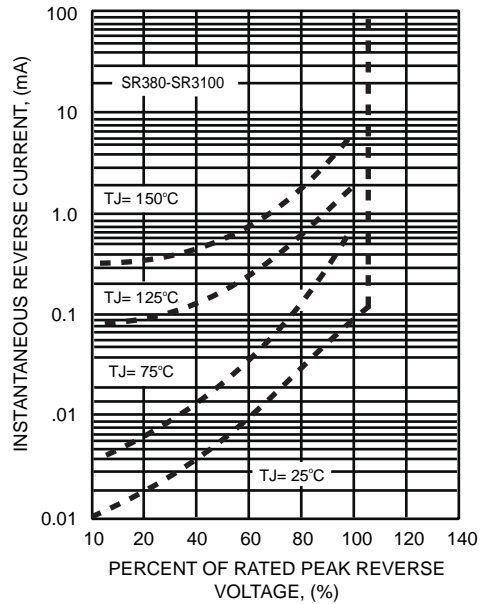


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

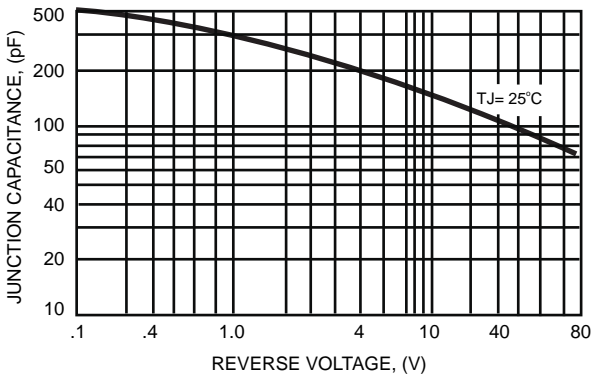
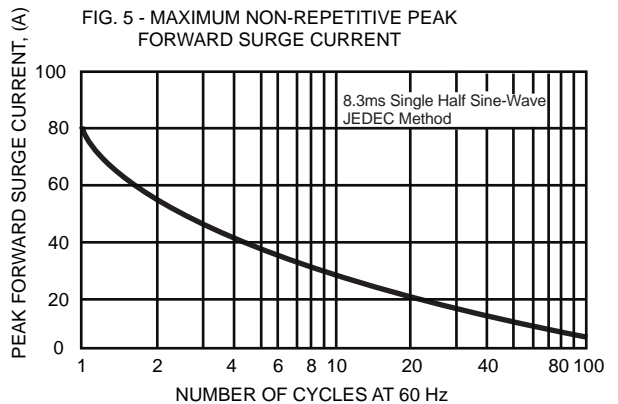


FIG. 5 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



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