

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 to 100 Volts CURRENT 3.0 Amperes

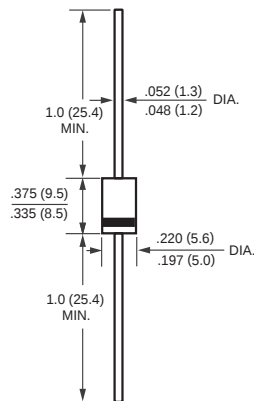
FEATURES

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

MECHANICAL DATA

- * Epoxy: Device has UL flammability classification 94V-O
- * Case: Molded plastic
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting: position: Any
- * Weight: 1.18 grams

DO-201AD



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%.

MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	SR320	SR330	SR340	SR350	SR360	SR380	SR3100	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	50	60	80	100	Volts
Maximum RMS Voltage	VRMS	14	21	28	35	42	56	70	Volts
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	80	100	Volts
Maximum Average Forward Rectified Current at Derating Lead Temperature	IO	3.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	80							Amps
Typical Thermal Resistance (Note 1)	RθJA	30							°C/W
Typical Junction Capacitance (Note 2)	CJ	200							pF
Operating Temperature Range	TJ	-55 to + 150							°C
Storage Temperature Range	TSTG	-55 to + 150							°C

ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	SR320	SR330	SR340	SR350	SR360	SR380	SR3100	UNITS
Maximum Instantaneous Forward Voltage at 3.0A DC	VF	.55			.75		.85		Volts
Maximum Average Reverse Current at Rated DC Blocking Voltage	IR	3.0			30				mAmps
									mAmps

NOTES : 1. Thermal Resistance (Junction to Ambient): Vertical PCB Mounting 0.5"(12.7mm) Lead Length.
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

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RATING AND CHARACTERISTIC CURVES (SR320 THRU SR3100)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

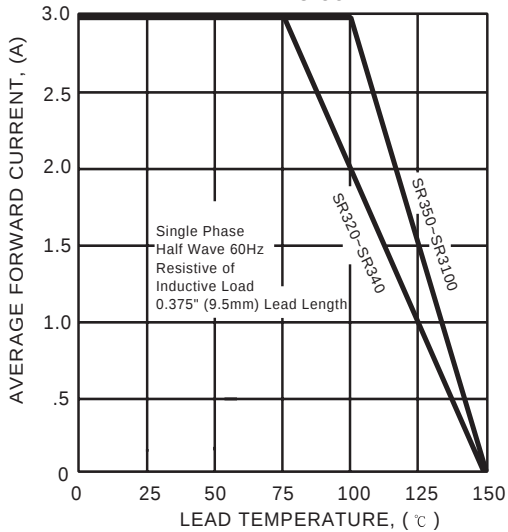


FIG. 2 - TYPICAL REVERSE CHARACTERISTICS

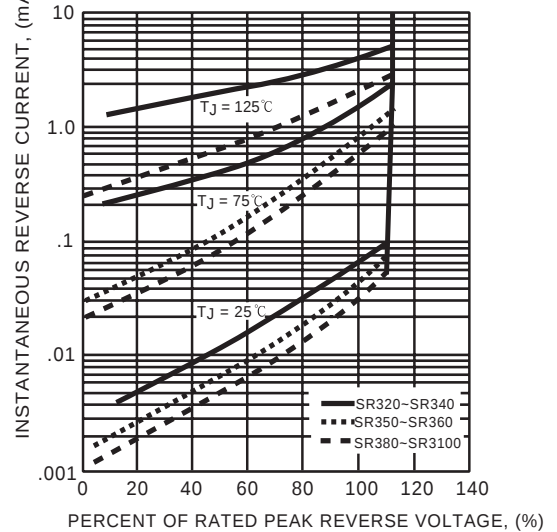


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

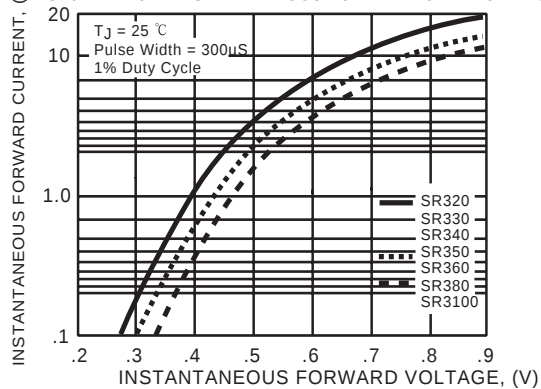


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

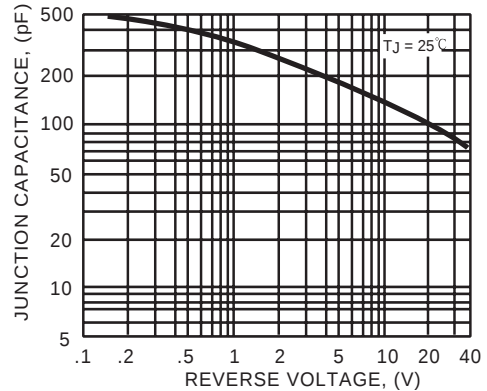


FIG. 5 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

