

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 90 to 100 Volts CURRENT 1.0 Ampere

FEATURES

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

MECHANICAL DATA

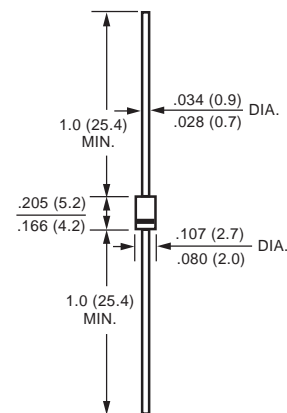
- * Case: Molded plastic
- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 0.33 gram

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-41



Dimensions in inches and (millimeters)

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

RATINGS	SYMBOL	SR190	SR1100	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	90	100	Volts
Maximum RMS Voltage	VRMS	63	70	Volts
Maximum DC Blocking Voltage	VDC	90	100	Volts
Maximum Average Forward Rectified Current .375" (9.5mm) lead length at Ta=50 °C	IO	1.0		Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	50		Amps
Typical Thermal Resistance (Note 1)	R θJA	57		°C/W
Typical Junction Capacitance (Note 2)	CJ	110		pF
Operating Temperature Range	TJ	150		°C
Storage Temperature Range	TSTG	-55 to + 150		°C

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

CHARACTERISTICS	SYMBOL	SR190	SR1100	UNITS
Maximum Instantaneous Forward Voltage at 1.0A DC	VF	.77		Volts
Maximum Average Reverse Current at Rated DC Blocking Voltage	IR	1.0		uA
		0.5		mA

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 (SR190 THRU SR1100)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

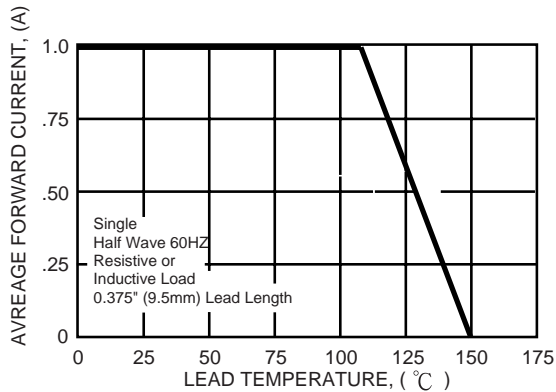


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

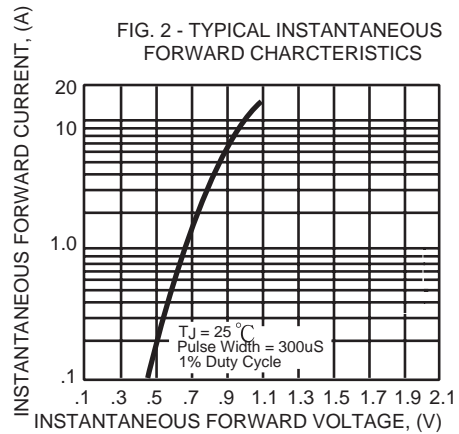


FIG. 3A - TYPICAL REVERSE CHARACTERISTICS

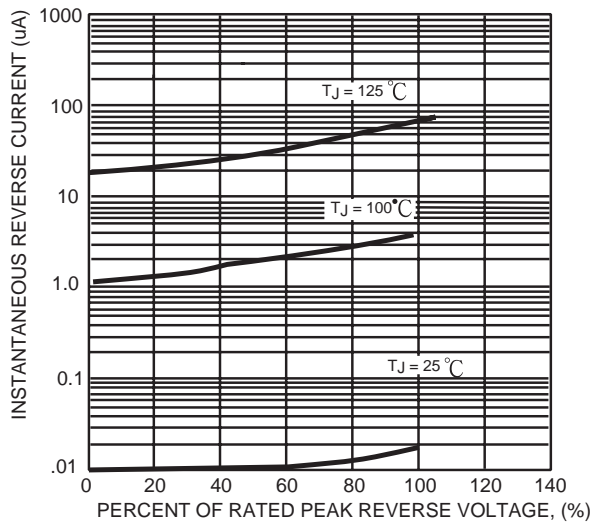


FIG. 4 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

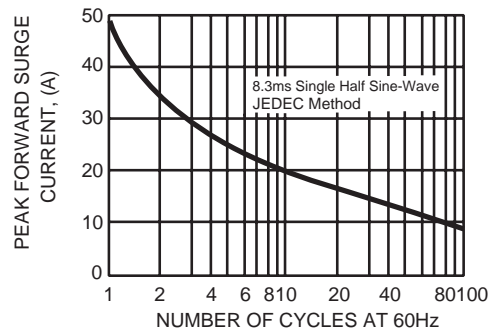


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

