

SILICON RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 1.0 Ampere

FEATURES

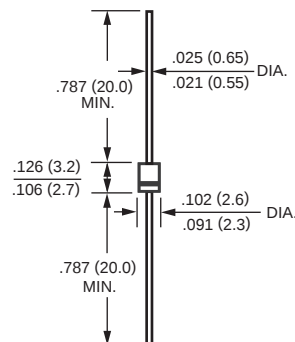
- * High reliability
- * Low leakage
- * Low forward voltage drop
- * High current capability

MECHANICAL DATA

- * Case: Molded plastic black body
- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 0.19 gram



R-1



Dimensions in inches and (millimeters)

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 T_A = 25°C unless otherwise noted)

[illegible]

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

CHARACTERISTICS		SYMBOL	1A1	1A2	1A3	1A4	1A5	1A6	1A7	UNITS
Maximum Instantaneous Forward Voltage at 1.0A DC		V _F				1.1				Volts
Maximum DC Reverse Current @ T _A = 25°C		I _R				5.0				uAmps
at Rated DC Blocking Voltage @ T _A = 100°C						50				
Maximum Full Load Reverse Current Full Cycle Average .375" (9.5mm) lead length at T _L = 75°C							100			

NOTES : Measured at 1 MHz and applied reverse voltage of 4.0 volts

2002-11

RATING AND CHARACTERISTIC CURVES (1A1 THRU 1A7)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

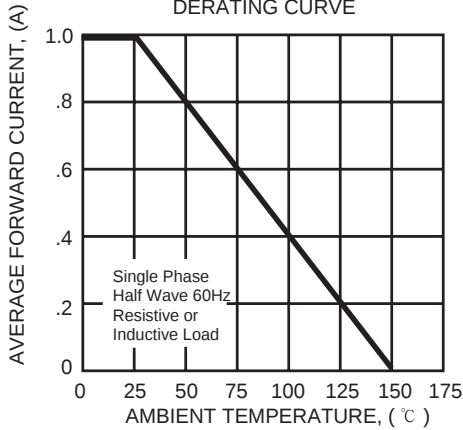


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

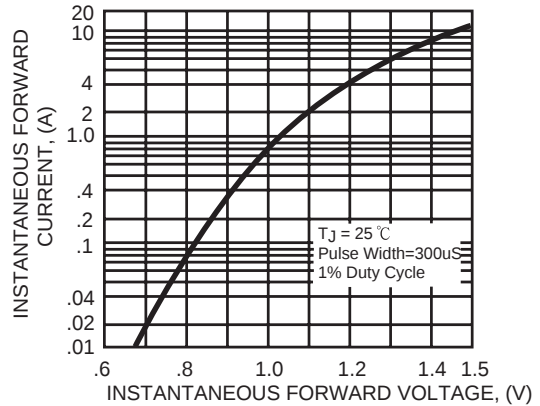


FIG. 3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

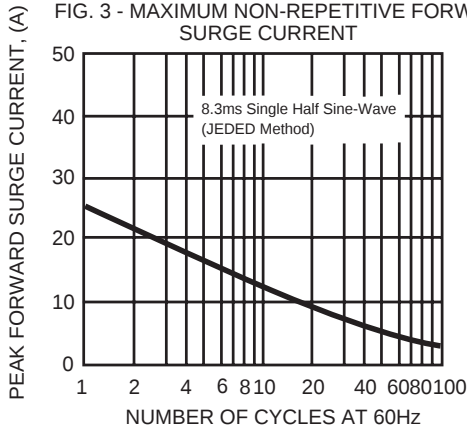


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

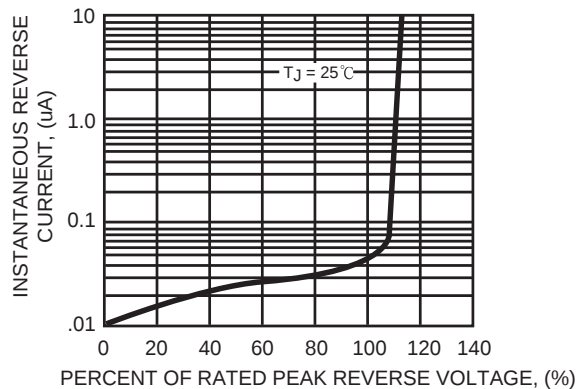
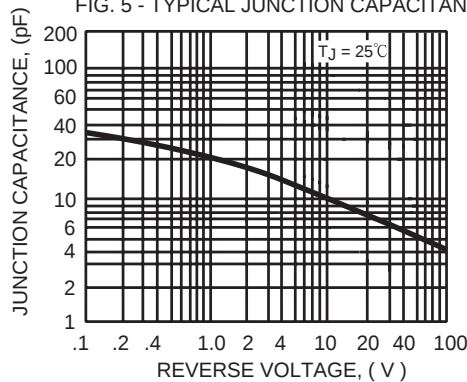


FIG. 5 - TYPICAL JUNCTION CAPACITANCE



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[1A1-T](#) [1A1-B](#) [1A7-B](#) [1A7-T](#) [1A5-T](#) [1A5-B](#) [1A4-T](#) [1A4-B](#) [1A6-B](#) [1A6-T](#) [1A2-T](#) [1A2-B](#) [1A3-B](#) [1A3-T](#) [1A1](#) [1A2](#)
[1A3](#) [1A4](#) [1A5](#) [1A6](#) [1A7](#)