

SILICON RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 1.0 Ampere

FEATURES

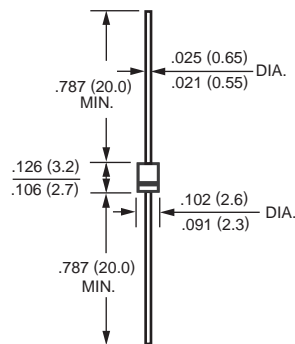
- * High reliability
- * Low leakage
- * Low forward voltage drop
- * High current capability

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

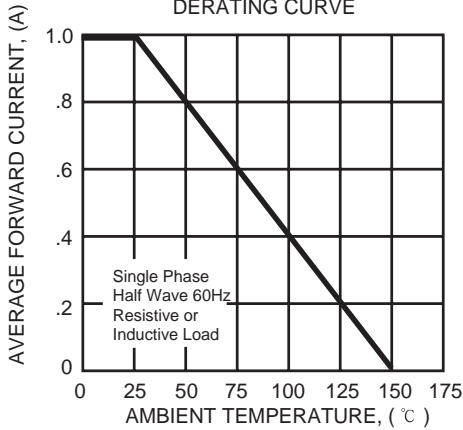


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

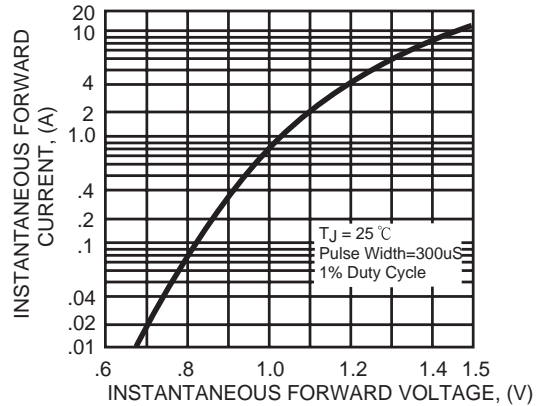


FIG. 3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

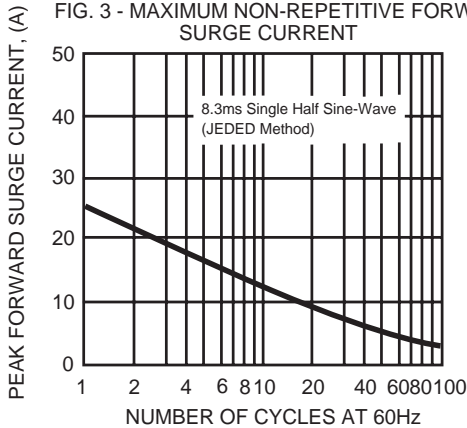


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

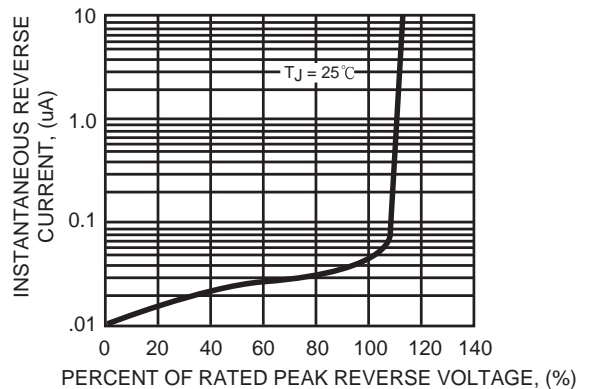
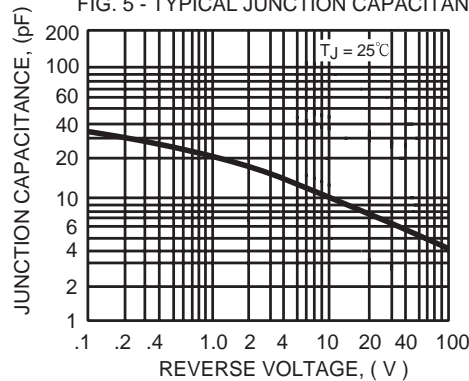


FIG. 5 - TYPICAL JUNCTION CAPACITANCE



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