



FEATURES

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

MECHANICAL DATA

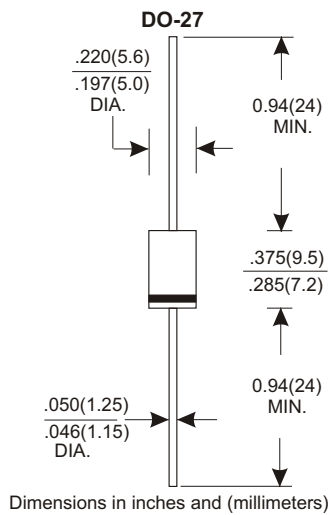
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: Axial leads, solderable per MIL-STD-202, method 208 guranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 1.10 grams

VOLTAGE RANGE

1000 Volts

CURRENT

5.0 Ampere



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unieess otherwies specified.
Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

| TYPE NUMBER | 1N5408G | UNITS |
|---|------------|----------|
| Maximum Recurrent Peak Reverse Voltage | 1000 | V |
| Maximum RMS Voltage | 700 | V |
| Maximum DC Blocking Voltage | 1000 | V |
| Maximum Average Forward Rectified Current at Ta=75°C | 5.0 | A |
| Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | 120 | A |
| Maximum Instantaneous Forward Voltage at 5.0A | 1.10 | V |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | 5.0 250 | μA μA |
| Typical Junction Capacitance (Note1) | 60 | pF |
| Typical Thermal Resistance RθJL (Note 2) | 13 | °C/W |
| Operating and Storage Temperature Range Tj, Tstg | -65 — +150 | °C |

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance Junction to Lead.

RATING AND CHARACTERISTIC CURVES (1N5408G)

FIG.1-TYPICAL FORWARD CHARACTERISTICS

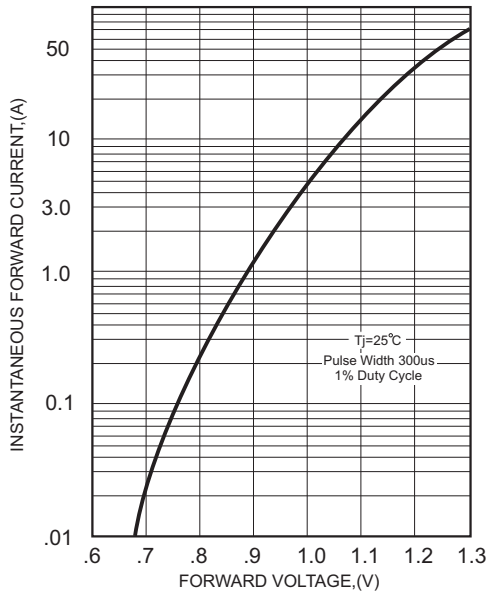


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

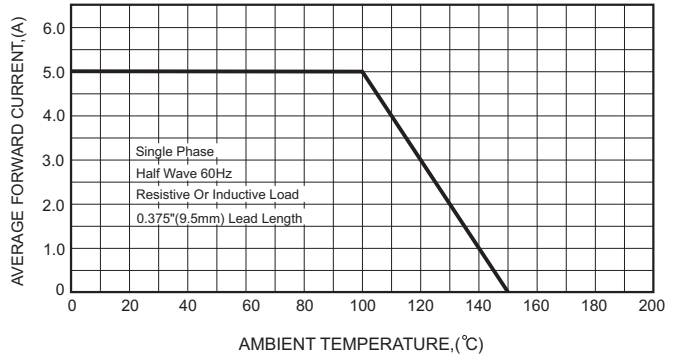


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

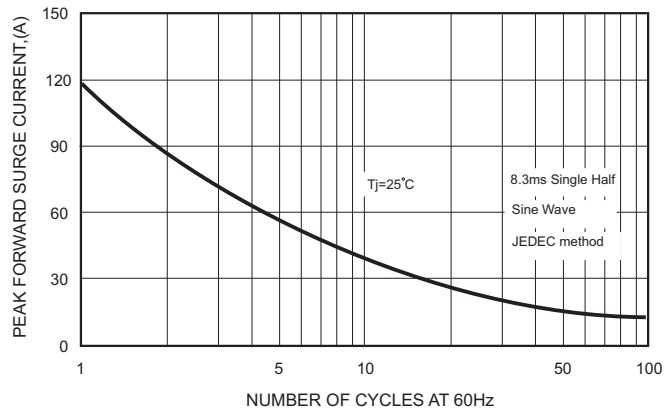


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

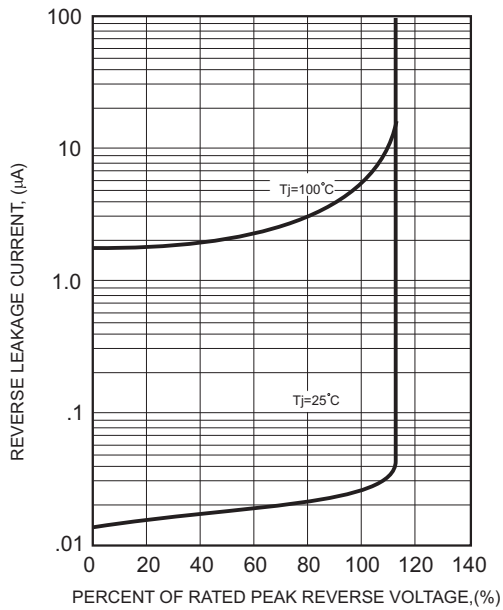


FIG.5-TYPICAL JUNCTION CAPACITANCE

