# 1N5400G THRU 1N5408G

## GLASS PASSIVATED JUNCTION RECTIFIER

**VOLTAGE: 50V to 1000V** **CURRENT: 3.0A**

GULF SEMI

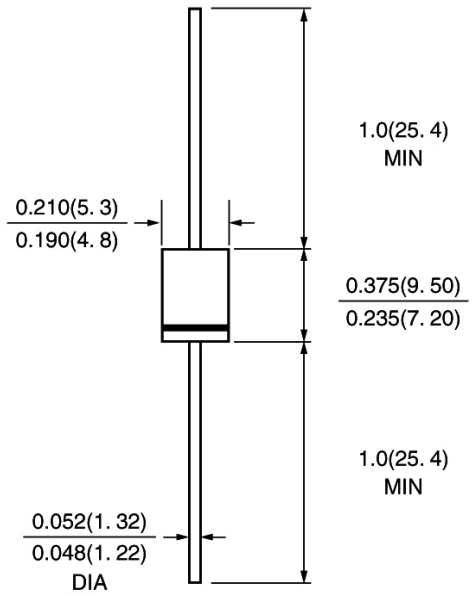
## FEATURE

Molded case feature for auto insertion
High current capability
Low leakage current
High surge capability
High temperature soldering guaranteed
250℃ /10sec/0.375" lead length at 5 lbs tension
Glass Passivated chip

## MECHANICAL DATA

Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C
Case: Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy
Polarity: color band denotes cathode
Mounting position: any

**DO - 201AD**




Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25℃, unless otherwise stated, for capacitive load, derate current by 20%)

| | Symbol | 1N5400G | 1N5401G | 1N5402G | 1N5403G | 1N5404G | 1N5405G | 1N5406G | 1N5407G | 1N5408G | units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum Recurrent Peak Reverse Voltage | Vrrm | 50 | 100 | 200 | 300 | 400 | 500 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | Vrms | 35 | 70 | 140 | 210 | 280 | 350 | 420 | 560 | 700 | V |
| Maximum DC blocking Voltage | Vdc | 50 | 100 | 200 | 300 | 400 | 500 | 600 | 800 | 1000 | V |
| Maximum Average Forward Rectified Current 3/8" lead length at $T_L$ =105℃ | If(av) | 3.0 | | | | | | | | | A |
| Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load | Ifsm | 180 | | | | | | | | | A |
| Maximum Instantaneous Forward Voltage at rated forward current | Vf | 1.1 | | | | | | | | | V |
| Maximum full load reverse current full cycle at $T_L$ =75℃ | Ir(av) | 30.0 | | | | | | | | | μA |
| Maximum DC Reverse Current Ta =25℃ at rated DC blocking voltage Ta =100℃ | Ir | 5.0<br>300.0 | | | | | | | | | μA |
| Typical Junction Capacitance (Note 1) | Cj | 40 | | | | | | | | | pF |
| Typical Thermal Resistance (Note 2) | Rth(ja) | 30 | | | | | | | | | ℃/W |
| Storage and Operating Junction Temperature | Tstg, Tj | -55 to +150 | | | | | | | | | ℃ |

Note:
1. Measured at 1.0 MHz and applied voltage of 4.0Vdc
2. Thermal Resistance from Junction to Ambient at 0.375" lead length, P.C. Board Mounted

## RATINGS AND CHARACTERISTIC CURVES 1N5400G THRU 1N5408G

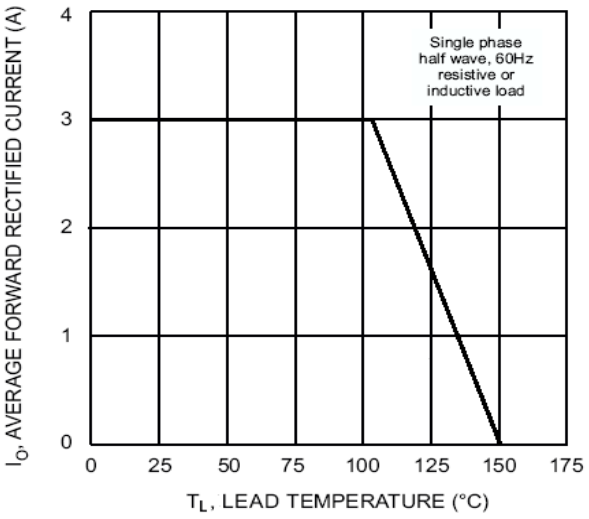



Fig. 1 Forward Current Derating Curve

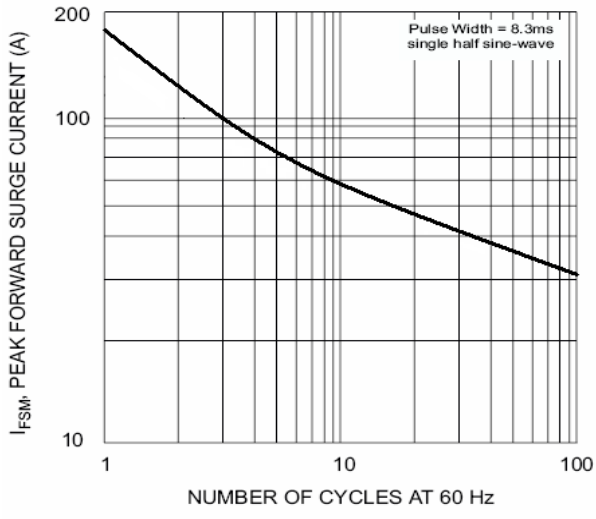



Fig. 2 Peak Forward Surge Current

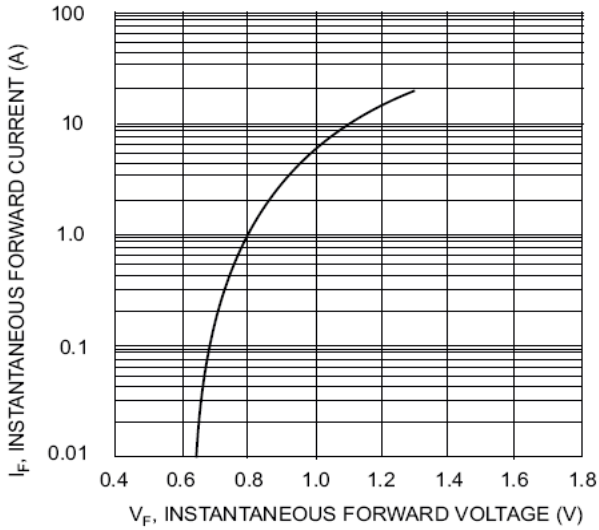



Fig. 3 Typical Forward Characteristics

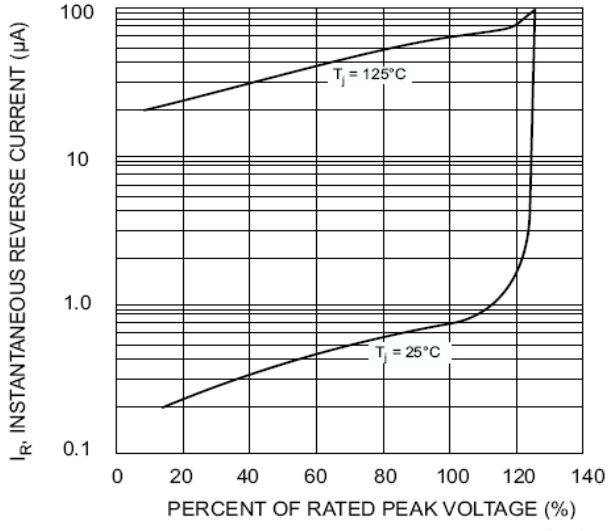



Fig. 4 Typical Reverse Characteristics

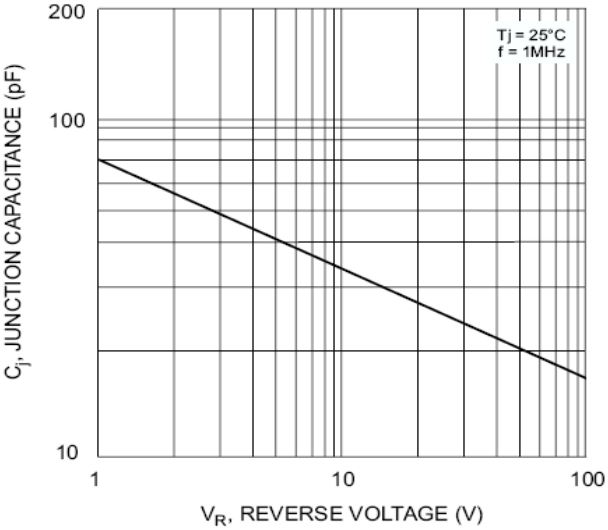



Fig. 5 Typical Junction Capacitance