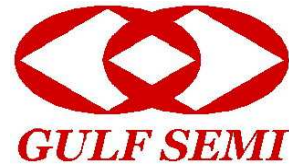


1N5400G-E THRU 1N5408G-E

GLASS PASSIVATED JUNCTION RECTIFIER

VOLTAGE: 50V to 1000V

CURRENT: 3.0A

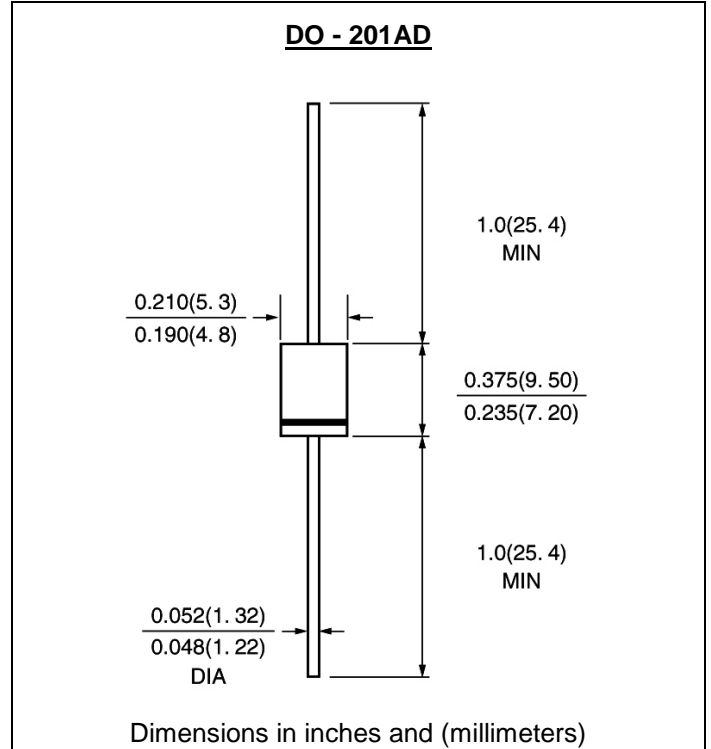


FEATURE

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

MECHANICAL DATA

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



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

| | SYMBOL | 1N 540 0G- E | 1N 540 1G- E | 1N 540 2G- E | 1N 540 3G- E | 1N 540 4G- E | 1N 540 5G- E | 1N 540 6G- E | 1N 540 7G- E | 1N 540 G- E | units |
|---|-----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|-------|
| Maximum Recurrent Peak Reverse Voltage | V _{rrm} | 50 | 100 | 200 | 300 | 400 | 500 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | V _{rms} | 35 | 70 | 140 | 210 | 280 | 350 | 420 | 560 | 700 | V |
| Maximum DC blocking Voltage | V _{dc} | 50 | 100 | 200 | 300 | 400 | 500 | 600 | 800 | 1000 | V |
| Maximum Average Forward Rectified Current 3/8" lead length at T _L =105°C | I _{f(av)} | 3.0 | | | | | | | | | A |
| Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load | I _{fsm} | 180 | | | | | | | | | A |
| Maximum Instantaneous Forward Voltage at rated forward current | V _f | 1.1 | | | | | | | | | V |
| Maximum full load reverse current full cycle at T _L =75°C | I _{r(av)} | 30.0 | | | | | | | | | μA |
| Maximum DC Reverse Current T _a =25°C at rated DC blocking voltage T _a =125°C | I _r | 5.0 100.0 | | | | | | | | | μA |
| Typical Junction Capacitance (Note 1) | C _j | 40 | | | | | | | | | pF |
| Operating Temperature (Note 2) | R _{th(ja)} | 30 | | | | | | | | | °C/W |
| Storage and Operating Junction Temperature | T _{stg} , T _j | -55 to +150 | | | | | | | | | °C |

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-E THRU 1N5408G-E

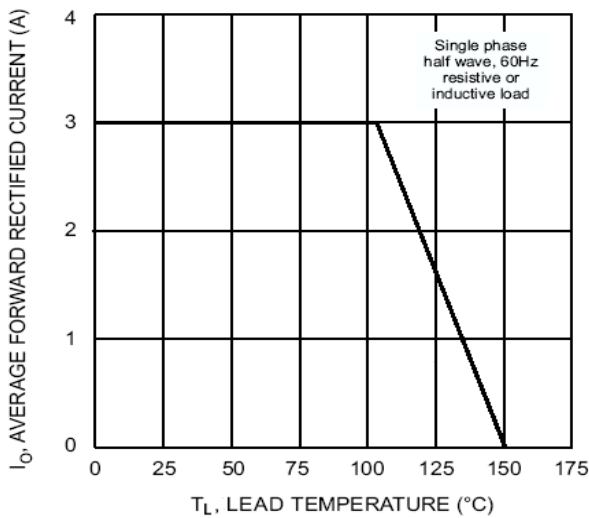


Fig. 1 Forward Current Derating Curve

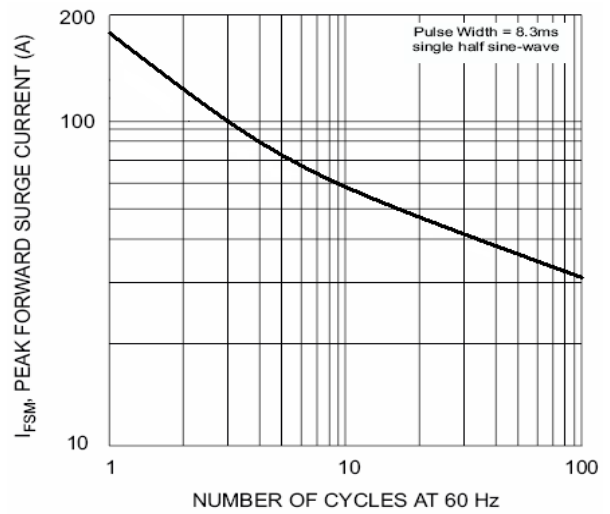


Fig. 2 Peak Forward Surge Current

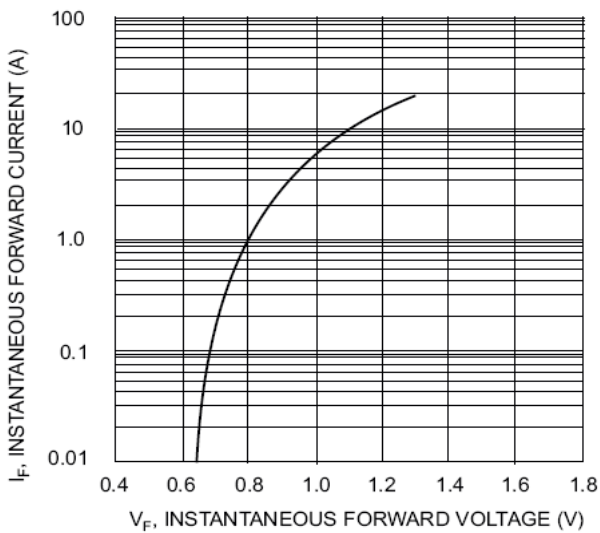


Fig. 3 Typical Forward Characteristics

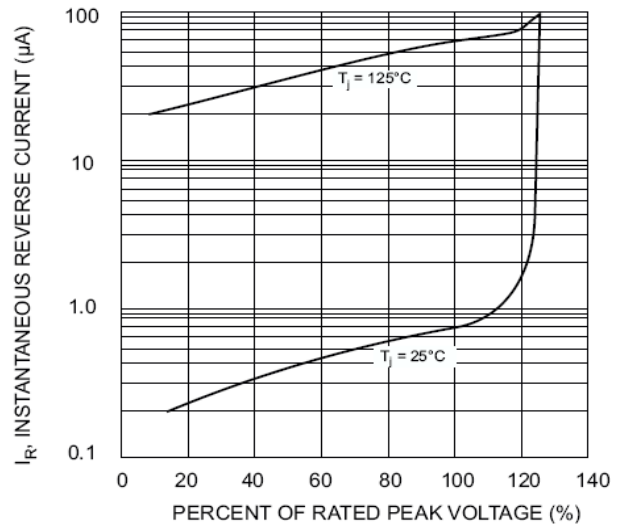


Fig. 4 Typical Reverse Characteristics

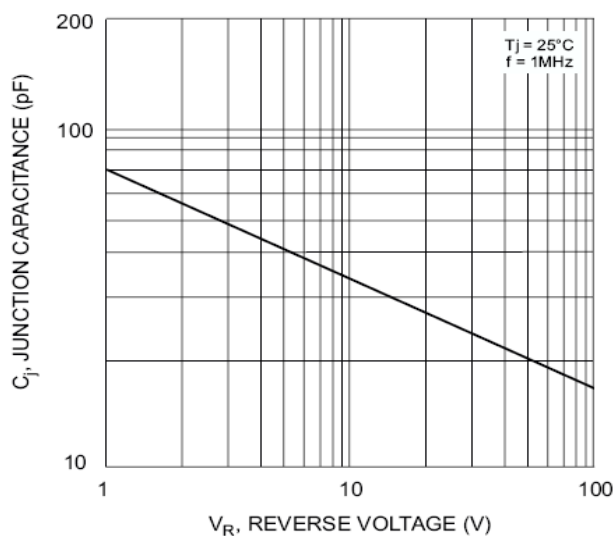


Fig. 5 Typical Junction Capacitance