



1N5400G - 1N5408G

PRV : 50 - 1000 Volts

Io : 3.0 Amperes

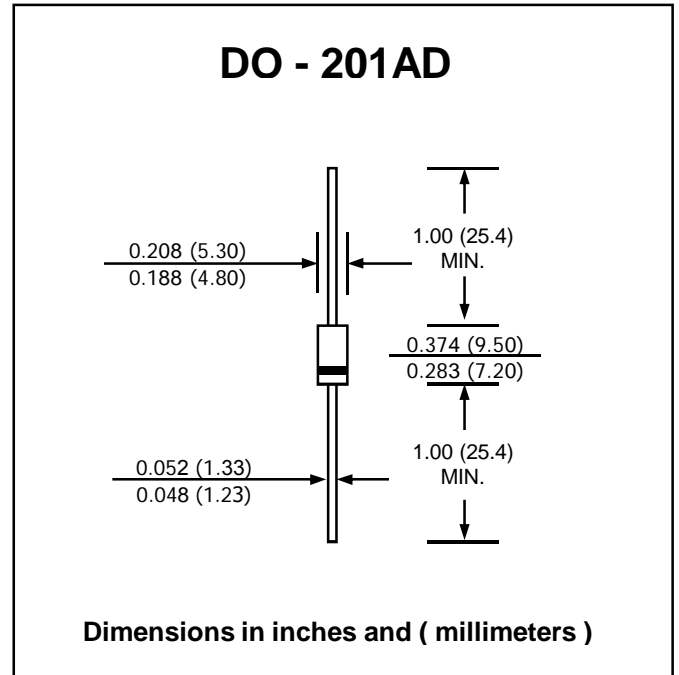
FEATURES :

- * Glass passivated chip
- * High current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * Pb / RoHS Free

MECHANICAL DATA :

- * Case : DO-201AD Molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 1.16 grams

GLASS PASSIVATED JUNCTION SILICON RECTIFIERS



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specific.
 Single phase, half wave, 60 Hz, resistive or inductive load
 For capacitive load, derate current by 20%

| RATING | SYMBOL | 1N5400G | 1N5401G | 1N5402G | 1N5404G | 1N5406G | 1N5407G | 1N5408G | UNIT |
|--|--------------------|---------------|---------|---------|---------|---------|---------|---------|------|
| Maximum Repetitive Peak Reverse Voltage | V _{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | V _{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | V _{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Current 0.375"(9.5mm) Lead Length Ta = 75 °C | I _{F(AV)} | 3.0 | | | | | | | A |
| Peak Forward Surge Current 8.3ms Single half sine wave Superimposed on rated load (JEDEC Method) | I _{FSM} | 150 | | | | | | | A |
| Maximum Forward Voltage at I _F = 3.0 Amps. | V _F | 1.0 | | | | | | | V |
| Maximum DC Reverse Current Ta = 25 °C | I _R | 5.0 | | | | | | | μA |
| at rated DC Blocking Voltage Ta = 100 °C | I _{R(H)} | 50 | | | | | | | μA |
| Typical Junction Capacitance (Note1) | C _J | 50 | | | | | | | pF |
| Typical Thermal Resistance (Note2) | R _{θJA} | 15 | | | | | | | °C/W |
| Junction Temperature Range | T _J | - 65 to + 175 | | | | | | | °C |
| Storage Temperature Range | T _{STG} | - 65 to + 175 | | | | | | | °C |

Notes :

- (1) Measured at 1.0 MHz and applied reverse voltage of 0.0V_{DC}
- (2) Thermal resistance from Junction to Ambient at 0.375" (9.5mm) Lead Lengths, P.C. Board Mounted.



RATING AND CHARACTERISTIC CURVES (1N5400G - 1N5408G)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

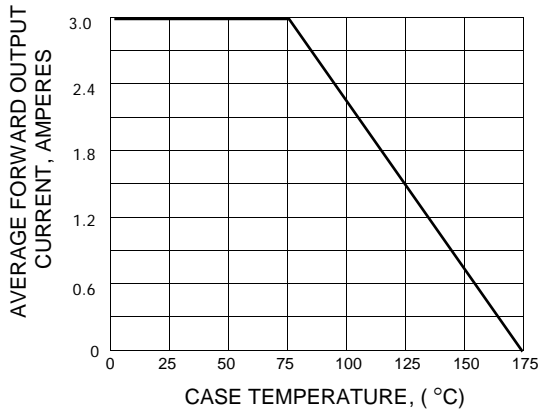


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

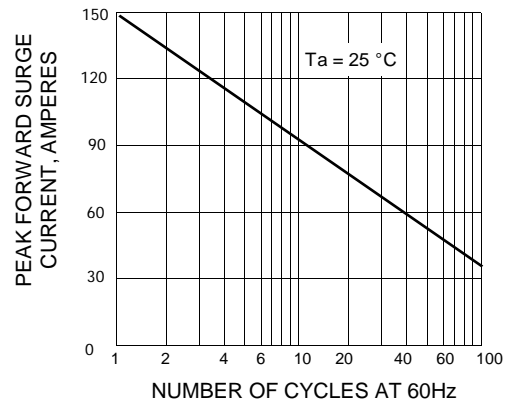


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

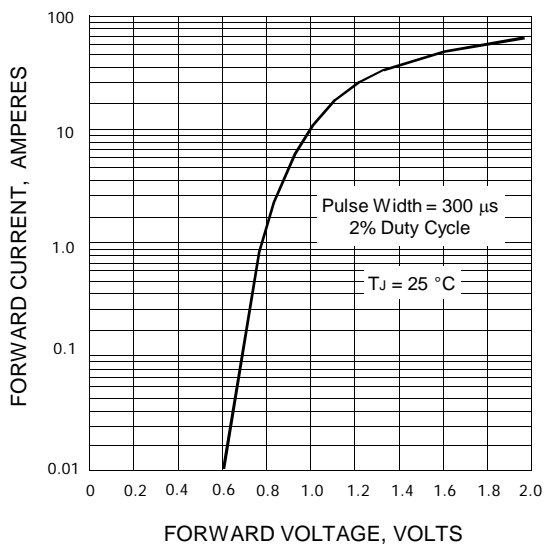


FIG.4 - TYPICAL JUNCTION CAPACITANCE

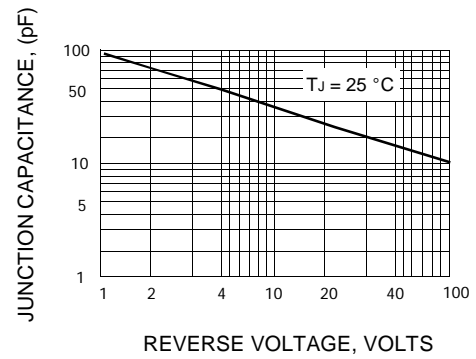
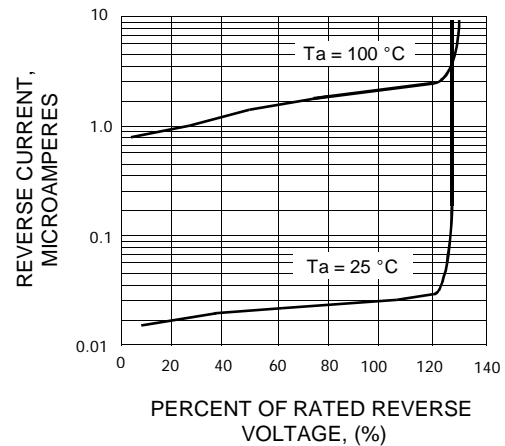


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



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