

# 1N5400G - 1N5408G

# **3.0A GLASS PASSIVATED RECTIFIER**

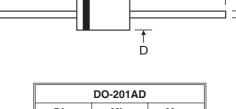
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## Features

- Glass Passivated Die Construction
- High Current Capability and Low Forward Voltage Drop
- Surge Overload Rating to 125A Peak
- Lead Free Finish, RoHS Compliant (Note 4)

### **Mechanical Data**

- Case: DO-201AD
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020C
- Terminals: Finish Tin. Plated Leads Solderable per MIL-STD-202, Method 208 (e3)
- Polarity: Cathode Band
- Ordering Information: See Last Page
- Marking: Type Number
- Weight: 1.12 grams (approximate)



DO-201AD					
Dim	Min	Мах			
Α	25.40	—			
В	7.20	9.50			
С	1.20	1.30			
D	4.80	5.30			
All Dimensions in mm					

Maximum Ratings and Electrical Characteristics @ T<sub>A</sub> = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	1N 5400G	1N 5401G	1N 5402G	1N 5403G	1N 5404G	1N 5405G	1N 5406G	1N 5407G	1N 5408G	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	50	100	200	300	400	500	600	800	1000	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	35	70	140	210	280	350	420	580	700	V
Average Rectified Output Current (Note 1) $@ T_A = 55^{\circ}C$	lo	3.0					А				
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>					125					A
Forward Voltage @ I <sub>F</sub> = 3.0A	V <sub>FM</sub>	1.1				V					
Peak Reverse Current@ $T_A = 25^{\circ}C$ at Rated DC Blocking Voltage@ $T_A = 125^{\circ}C$	I <sub>RM</sub>	5.0 100				μA					
Reverse Recovery Time (Note 3)	t <sub>rr</sub>	2.0				μS					
Typical Total Capacitance (Note 2)	CT	40			pF						
Typical Thermal Resistance Junction to Ambient	R <sub>0JA</sub>	32			°C/W						
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>STG</sub>				-6	65 to +15	50				°C

1. Valid provided that leads are kept at ambient temperature at a distance of 9.5mm from the case.

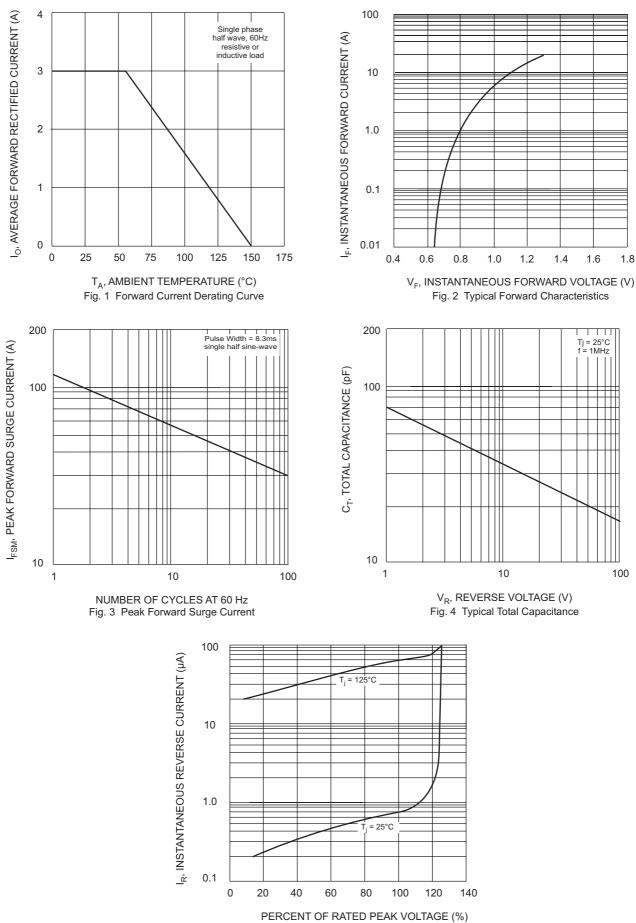
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

3. Measured with  $I_F = 0.5A$ ,  $I_R = 1.0A$ ,  $I_{rr} = 0.25A$ .

4. RoHS revision 13.2.2003. Glass and High Temperature Solder Exemptions Applied, see EU Directive Annex Notes 5 and 7.

Notes:







### Ordering Information (Note 5)

Device	Packaging	Shipping			
1N5400G-B	DO-201AD	500/Bulk			
1N5400G-T	DO-201AD	1.2K/Tape & Reel, 13-inch			
1N5401G-B	DO-201AD	500/Bulk			
1N5401G-T	DO-201AD	1.2K/Tape & Reel, 13-inch			
1N5402G-B	DO-201AD	500/Bulk			
1N5402G-T	DO-201AD	1.2K/Tape & Reel, 13-inch			
1N5403G-B	DO-201AD	500/Bulk			
1N5403G-T	DO-201AD	1.2K/Tape & Reel, 13-inch			
1N5404G-B	DO-201AD	500/Bulk			
1N5404G-T	DO-201AD	1.2K/Tape & Reel, 13-inch			
1N5405G-B	DO-201AD	500/Bulk			
1N5405G-T	DO-201AD	1.2K/Tape & Reel, 13-inch			
1N5406G-B	DO-201AD	500/Bulk			
1N5406G-T	DO-201AD	1.2K/Tape & Reel, 13-inch			
1N5407G-B	DO-201AD	500/Bulk			
1N5407G-T	DO-201AD	1.2K/Tape & Reel, 13-inch			
1N5408G-B	DO-201AD	500/Bulk			
1N5408G-T	DO-201AD	1.2K/Tape & Reel, 13-inch			

Notes: 5. For packaging details, visit our website at http://www.diodes.com/datasheets/ap02008.pdf

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