

1N5400G - 1N5408G

3.0A GLASS PASSIVATED RECTIFIER

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

Polarity: Cathode Band

Moisture Sensitivity: Level 1 per J-STD-020C

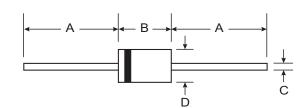
Terminals: Finish - Tin. Plated Leads Solderable per

MIL-STD-202, Method 208 @3)

Ordering Information: See Last Page

Marking: Type Number

Weight: 1.12 grams (approximate)



DO-201AD						
Dim	Min	Max				
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_A = 25°C unless otherwise specified

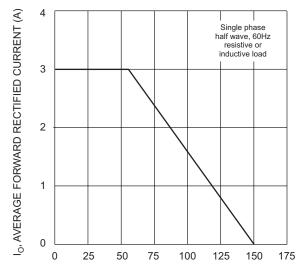
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

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 _{RRM} V _{RWM} V _R	50	100	200	300	400	500	600	800	1000	V
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	210	280	350	420	580	700	V
Average Rectified Output Current (Note 1) @ T _A = 55°C	Io	3.0				А					
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	125					А				
Forward Voltage @ I _F = 3.0A	V _{FM}	1.1					V				
Peak Reverse Current @ T _A = 25°C at Rated DC Blocking Voltage @ T _A = 125°C		5.0 100				μА					
Reverse Recovery Time (Note 3)	t _{rr}					2.0					μS
Typical Total Capacitance (Note 2)	Ст	40			pF						
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	32			°C/W						
Operating and Storage Temperature Range	T _{j,} T _{STG}	-65 to +150			°C						

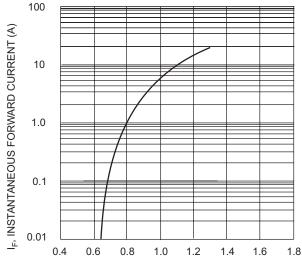
Notes:

- 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.

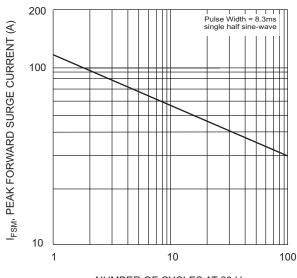




T_A, AMBIENT TEMPERATURE (°C) Fig. 1 Forward Current Derating Curve



V_F, INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 2 Typical Forward Characteristics



NUMBER OF CYCLES AT 60 Hz Fig. 3 Peak Forward Surge Current

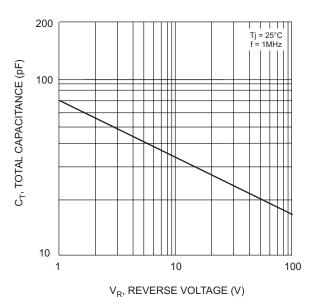
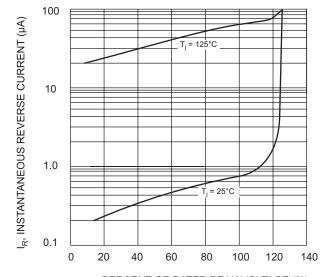


Fig. 4 Typical Total Capacitance



PERCENT OF RATED PEAK VOLTAGE (%) Fig. 5 Typical Reverse Characteristics



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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