

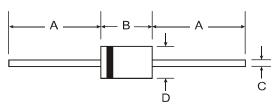
1.0A GLASS PASSIVATED RECTIFIER

Features

- Glass Passivated Die Construction
- High Current Capability and Low Forward Voltage Drop
- Surge Overload Rating to 30A Peak
- Lead Free Finish, RoHS Compliant (Note 4)

Mechanical Data

- Case: DO-41 Plastic
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020D
- Terminals: Finish Tin. Plated Leads Solderable per MIL-STD-202, Method 208 (3)
- Polarity: Cathode Band
- Ordering Information: See Page 3
- Marking: Type Number
- Weight: 0.30 grams (approximate)



Dim	DO-41 Plastic					
Dim	Min	Max				
Α	25.40	-				
В	4.06	5.21				
С	0.71	0.864				
D	2.00	2.72				
All Dimensions in mm						

Maximum Ratings and Electrical Characteristics @TA = 25°C unless otherwise specified

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

Characteristic	Symbol	1N4001 G	1N4002 G	1N4003 G	1N4004 G	1N4005 G	1N4006 G	1N4007 G	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) @ T _A = 75°C		1.0						А	
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load		30						А	
Forward Voltage @ I _F = 1.0A		1.0						V	
Peak Reverse Current $@T_A = 25^{\circ}C$ at Rated DC Blocking Voltage $@T_A = 125^{\circ}C$		5.0 50						μA	
Reverse Recovery Time (Note 3)		2.0						μs	
Typical Total Capacitance (Note 2)		8.0					pF		
Typical Thermal Resistance Junction to Ambient		100					°C/W		
Operating and Storage Temperature Range		-65 to +175					°C		

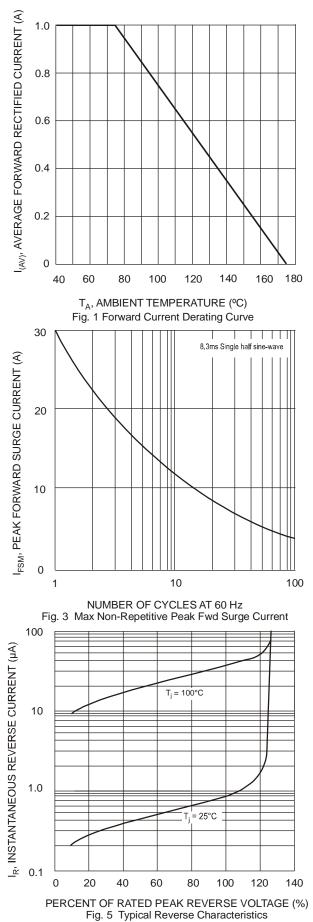
Notes: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case.

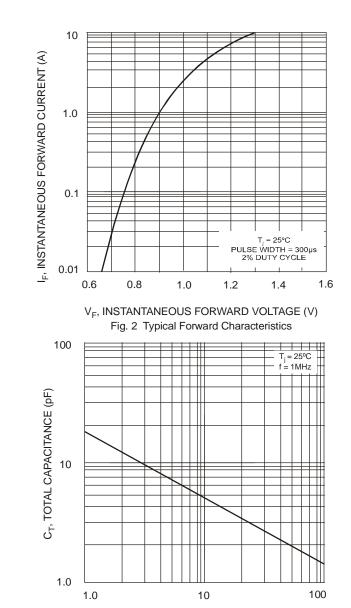
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

3. Measured with $I_F = 0.5A$, $I_R = -1A$, $I_{rr} = 0.25A$.

4. EU Directive 2002/95/EC (RoHS). All applicable RoHS exemptions applied, see EU Directive 2002/95/EC Annex Notes.







V_R, REVERSE VOLTAGE (V) Fig. 4 Typical Total Capacitance



Ordering Information (Note 5)

Device	Packaging	Shipping
1N4001G-T	DO-41 Plastic	5K/Tape & Reel, 13-inch
1N4002G-T	DO-41 Plastic	5K/Tape & Reel, 13-inch
1N4003G-T	DO-41 Plastic	5K/Tape & Reel, 13-inch
1N4004G-T	DO-41 Plastic	5K/Tape & Reel, 13-inch
1N4005G-T	DO-41 Plastic	5K/Tape & Reel, 13-inch
1N4006G-T	DO-41 Plastic	5K/Tape & Reel, 13-inch
1N4007G-T	DO-41 Plastic	5K/Tape & Reel, 13-inch

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

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