

1N4001G/L - 1N4007G/L

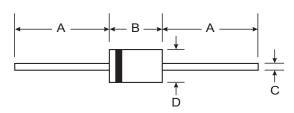
1.0A GLASS PASSIVATED RECTIFIER

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, A-405
- 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 (23)
- Polarity: Cathode Band
- Ordering Information: See Last Page
- Marking: Type Number
- Weight: DO-41 0.30 grams (approximate) A-405 0.20 grams (approximate)



	DO-41	Plastic	A-405			
Dim	Min	Max	Min	Max		
Α	25.40	—	25.40	_		
В	4.06	5.21	4.10	5.20		
С	0.71	0.864	0.53	0.64		
D	2.00	2.72	2.00	2.70		
All Dimensions in mm						

"L" Suffix Designates A-405 Package No Suffix Designates DO-41 Package

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	1N4001 G/GL	1N4002 G/GL	1N4003 G/GL	1N4004 G/GL	1N4005 G/GL	1N4006 G/GL	1N4007 G/GL	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 IO		•	•	1.0	•			А
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}				30				A
Forward Voltage @ I _F = 1	0A V _{FM}				1.0				V
Peak Reverse Current $@T_A = 2!$ at Rated DC Blocking Voltage $@T_A = 12!$					5.0 50				μA
Reverse Recovery Time (Note 3)	t _{rr}				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		

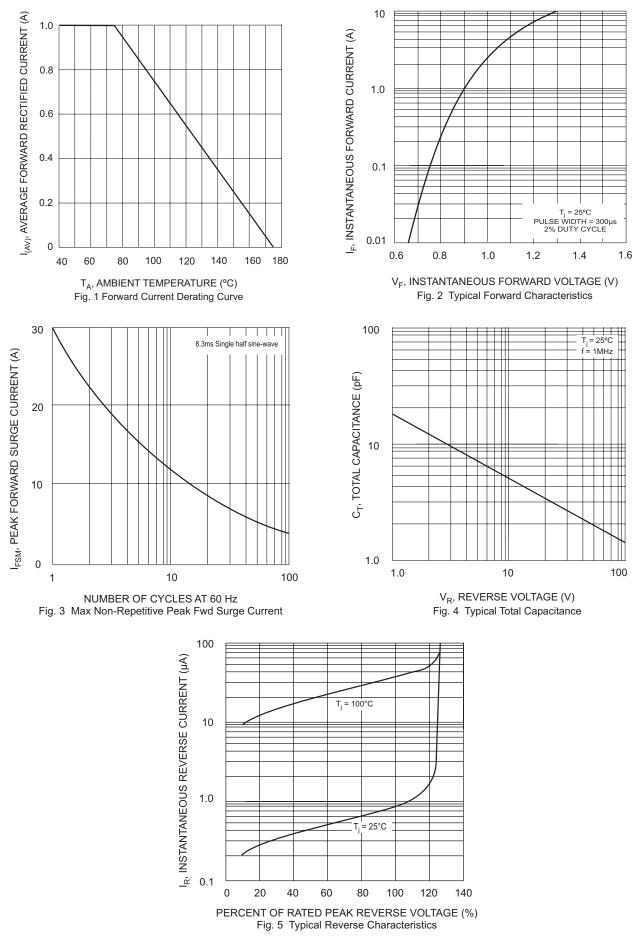
Notes: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case.

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





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Ordering Information (Note 5)

Device	Packaging	Shipping		
1N4001G-A	DO-41 Plastic	5K/Ammo Pack		
1N4001G-B	DO-41 Plastic	1K/Bulk		
1N4001G-T	DO-41 Plastic	5K/Tape & Reel, 13-inch		
1N4002G-A	DO-41 Plastic	5K/Ammo Pack		
1N4002G-B	DO-41 Plastic	1K/Bulk		
1N4002G-T	DO-41 Plastic	5K/Tape & Reel, 13-inch		
1N4003G-A	DO-41 Plastic	5K/Ammo Pack		
1N4003G-B	DO-41 Plastic	1K/Bulk		
1N4003G-T	DO-41 Plastic	5K/Tape & Reel, 13-inch		
1N4004G-A	DO-41 Plastic	5K/Ammo Pack		
1N4004G-B	DO-41 Plastic	1K/Bulk		
1N4004G-T	DO-41 Plastic	5K/Tape & Reel, 13-inch		
1N4005G-A	DO-41 Plastic	5K/Ammo Pack		
1N4005G-B	DO-41 Plastic	1K/Bulk		
1N4005G-T	DO-41 Plastic	5K/Tape & Reel, 13-inch		
1N4006G-A	DO-41 Plastic	5K/Ammo Pack		
1N4006G-B	DO-41 Plastic	1K/Bulk		
1N4006G-T	DO-41 Plastic	5K/Tape & Reel, 13-inch		
1N4007G-A	DO-41 Plastic	5K/Ammo Pack		
1N4007G-B	DO-41 Plastic	1K/Bulk		
1N4007G-T	DO-41 Plastic	5K/Tape & Reel, 13-inch		
1N4001GL-T	A-405	5K/Tape & Reel, 13-inch		
1N4002GL-T	A-405	5K/Tape & Reel, 13-inch		
1N4003GL-T	A-405	5K/Tape & Reel, 13-inch		
1N4004GL-T	A-405	5K/Tape & Reel, 13-inch		
1N4005GL-T	A-405	5K/Tape & Reel, 13-inch		
1N4006GL-T	A-405	5K/Tape & Reel, 13-inch		
1N4007GL-T	A-405	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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