

1.0A GLASS PASSIVATED RECTIFIER

Features and Benefits

- Glass Passivated Die Construction
- High Current Capability and Low Forward Voltage Drop
- Surge Overload Rating to 30A Peak
- Lead Free Finish, RoHS Compliant (Note 1)

Mechanical Data

Case: DO-41 Plastic

Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

Moisture Sensitivity: Level 1 per J-STD-020

Terminals: Finish - Tin. Plated Leads Solderable per MIL-STD-

202, Method 208 @3

Polarity: Cathode Band Marking: Type Number

Weight: 0.30 grams (approximate)

Ordering Information (Note 2)

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

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

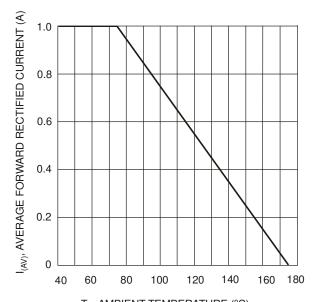
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

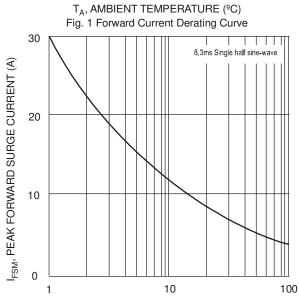
Characteristic	Symbol	1N4001 G	1N4002 G	1N4003 G	1N4004 G	1N4005 G	1N4006 G	1N4007 G	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	٧
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 3) @ T _A = 75°C	Ιο	1.0					Α		
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	30				Α			
Forward Voltage @ I _F = 1.0A	V_{FM}	1.0						V	
Peak Reverse Current @T _A = 25°C at Rated DC Blocking Voltage @ T _A = 125°C	I _{RM}	5.0 50					μΑ		
Typical Reverse Recovery Time (Note 4)	t _{rr}	2.0					μs		
Typical Total Capacitance (Note 5)	C _T	8.0					pF		
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	100					°C/W		
Operating and Storage Temperature Range	T _{J,} T _{STG}	-65 to +175					°C		

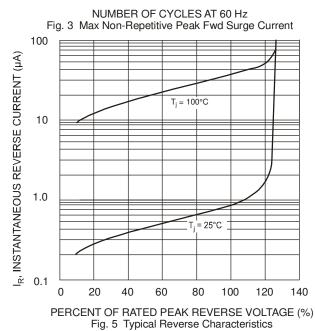
Notes:

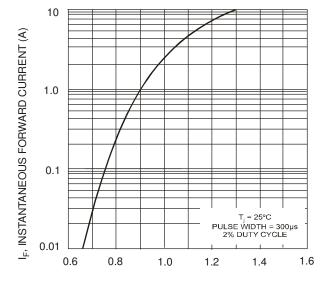
- 1. EU Directive 2002/95/EC (RoHS). All applicable RoHS exemptions applied, see EU Directive 2002/95/EC Annex Notes.
- 2. For packaging details, visit our website at http://www.diodes.com.
- 3. Leads maintained at ambient temperature at a distance of 9.5mm from the case.
- 4. Measured with $I_F = 0.5A$, $I_R = -1A$, $I_{rr} = 0.25A$.
- 5. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.



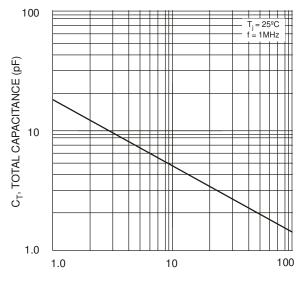








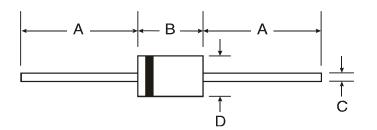
V_F, INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 2 Typical Forward Characteristics



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



Package Outline Dimensions



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					

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