

# 1N4001G - 1N4007G

### 1.0A GLASS PASSIVATED RECTIFIER

#### **Features**

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability

#### **Mechanical Data**

Case: Molded Plastic

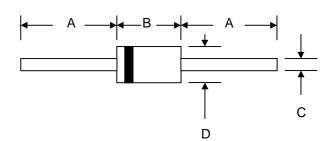
Terminals: Plated Leads Solderable per

MIL-STD-202, Method 208 Polarity: Cathode Band

Weight: 0.35 grams (approx.)

Mounting Position: Any

Marking: Type Number



DO-41					
Dim	Min	Max			
Α	25.4	_			
В	4.06	5.21			
С	0.71	0.864			
D	2.00	2.72			
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 4001G	1N 4002G	1N 4003G	1N 4004G	1N 4005G	1N 4006G	1N 4007G	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) @T <sub>A</sub> = 75°C	lo				1.0				Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM				30				А
Forward Voltage @I <sub>F</sub> = 1.0A	VFM	1.0			V				
Peak Reverse Current @T <sub>A</sub> = 25°C At Rated DC Blocking Voltage @T <sub>A</sub> = 100°C	lгм	5.0 50			μΑ				
Typical Junction Capacitance (Note 2)	Cj				8.0				pF
Typical Thermal Resistance Junction to Ambient (Note 1)	R heta JA				100				K/W
Operating Temperature Range	Tj			-	65 to +17	5			°C
Storage Temperature Range	Тѕтс	-65 to +175		°C					

Note: 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 D.C.

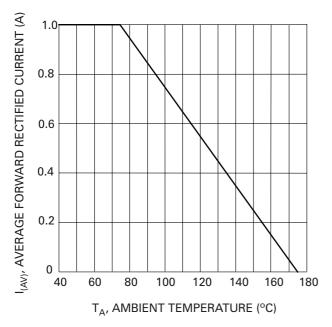
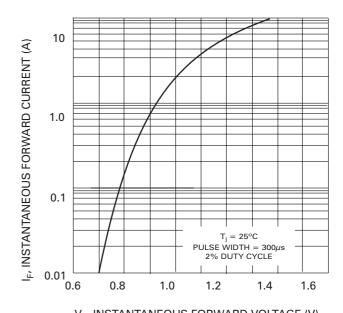


Fig. 1 Forward Current Derating Curve



 ${\sf V_{\sf F}}$ , INSTANTANEOUS FORWARD VOLTAGE (V)

Fig. 2 Typical Forward Characteristics

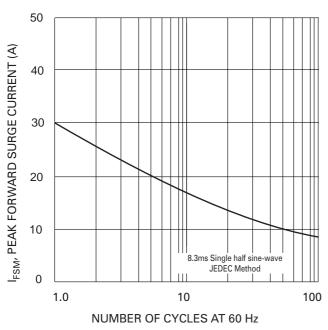


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

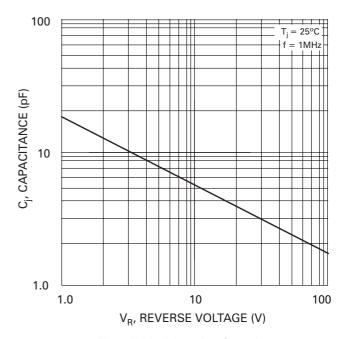


Fig. 4 Typical Junction Capacitance

#### **ORDERING INFORMATION**

Product No.◆	Package Type	Shipping Quantity				
1N4001G-T3	DO-41	5000/Tape & Reel				
1N4001G-TB	DO-41	5000/Tape & Box				
1N4001G	DO-41	1000 Units/Box				
1N4002G-T3	DO-41	5000/Tape & Reel				
1N4002G-TB	DO-41	5000/Tape & Box				
1N4002G	DO-41	1000 Units/Box				
1N4003G-T3	DO-41	5000/Tape & Reel				
1N4003G-TB	DO-41	5000/Tape & Box				
1N4003G	DO-41	1000 Units/Box				
1N4004G-T3	DO-41	5000/Tape & Reel				
1N4004G-TB	DO-41	5000/Tape & Box				
1N4004G	DO-41	1000 Units/Box				
1N4005G-T3	DO-41	5000/Tape & Reel				
1N4005G-TB	DO-41	5000/Tape & Box				
1N4005G	DO-41	1000 Units/Box				
1N4006G-T3	DO-41	5000/Tape & Reel				
1N4006G-TB	DO-41	5000/Tape & Box				
1N4006G	DO-41	1000 Units/Box				
1N4007G-T3	DO-41	5000/Tape & Reel				
1N4007G-TB	DO-41	5000/Tape & Box				
1N4007G	DO-41	1000 Units/Box				

Products listed in **bold** are WTE **Preferred** devices.

T3 suffix refers to a 13" reel. TB suffix refers to Ammo Pack.

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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