

1N4001G/L - 1N4007G/L

1.0A GLASS PASSIVATED RECTIFIER

Features

- Glass Passivated Die Construction
- Diffused Junction
- High Current Capability and Low Forward Voltage Drop
- Surge Overload Rating to 30A Peak
- Plastic Material UL Flammability Classification 94V-0

Mechanical Data

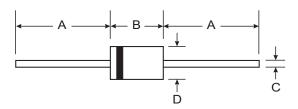
Case: Molded Plastic

Terminals: Plated Leads Solderable per

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

 Weight: DO-41 0.30 grams (approx) A-405 0.20 grams (approx)

Mounting Position: AnyMarking: Type Number



	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

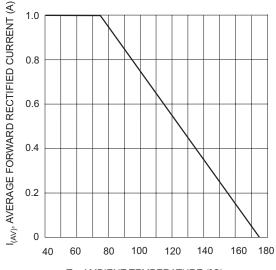
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

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 I _O	1.0							Α
Non-Repetitive Peak Forward Surge Curren 8.3ms single half sine-wave superimposed of rated load (JEDEC Method)	t on I _{FSM}	30							Α
Forward Voltage @ I _F	= 1.0A V _{FM}	1.0					V		
	25°C I _{RM}	5.0 50							μΑ
Reverse Recovery Time (Note 3)	t _{rr}	2.0							μs
Typical Junction Capacitance (Note 2)	Cj	8.0							pF
Typical Thermal Resistance Junction to Am	oient R _{θJA}	100							K/W
Operating and Storage Temperature Range	$T_{j,}T_{STG}$	-65 to +175						°C	

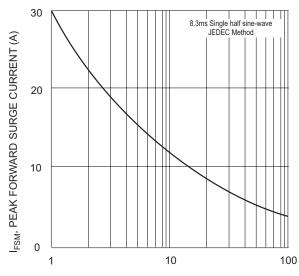
Notes: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC. 3. Measured with I_F = 0.5A, I_B = -1A, I_{rr} = 0.25A.

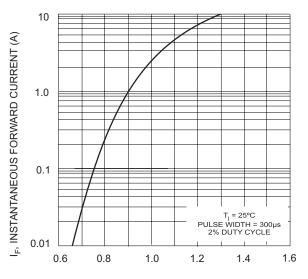




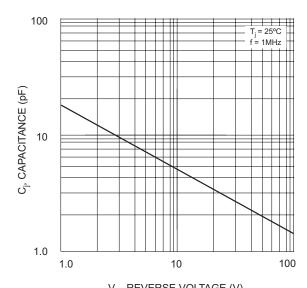




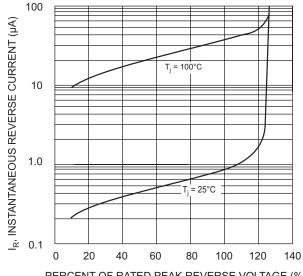
NUMBER OF CYCLES AT 60 Hz Fig. 3 Max Non-Repetitive Peak Fwd Surge Current



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



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



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