

1N4001G THRU 1N4007G

1.0 AMP. Glass Passivated Rectifiers

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Voltage Range 50 to 1000 Volts Current 1.0 Ampere

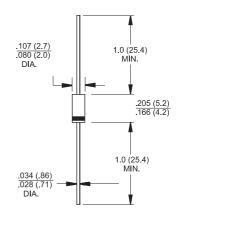
DO-41

Features

- ♦ Low forward voltage drop
- ♦ High current capability
- ♦ High reliability
- → High surge current capability

Mechanical Data

- ♦ Cases: Molded plastic
- ♦ Epoxy: UL 94V-0 rate flame retardant
- Lead: Axial leads, solderable per MIL-STD-202, Method 208 guaranteed
- ♦ Polarity: Color band denotes cathode end
- → High temperature soldering guaranteed: 260°C/10 seconds/.375",(9.5mm) lead lengths at 5 lbs.,(2.3kg) tension
- ♦ Weight: 0.34 gram



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

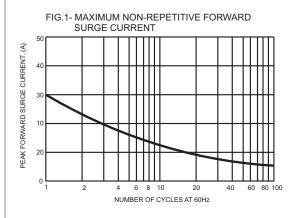
Type Number	Symbol		1N 4002G	1N 4003G	1N 4004G	1N 4005G	1N 4006G	1N 4007G	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length $@T_A = 50^{\circ}C$	I _(AV)	1.0							А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	30							Α
Maximum Instantaneous Forward Voltage @1.0A	V _F	1.0							V
Maximum DC Reverse Current @ T _A =25°C	I _R	5.0							uA
at Rated DC Blocking Voltage @ T _A =125℃		100							uA
Typical Junction Capacitance (Note 1)	Cj	10							pF
Typical Thermal Resistance (Note 2)	$R\theta_{JA}$	65							OC/W
Operating and Storage Temperature Range	T_J, T_{STG}	- 65 to + 150							${\mathbb C}$

Note: 1. Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.

2. Mount on Cu-Pad Size 5mm x 5mm on P.C.B.



RATINGS AND CHARACTERISTIC CURVES (1N4001G THRU 1N4007G)



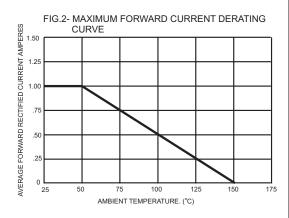
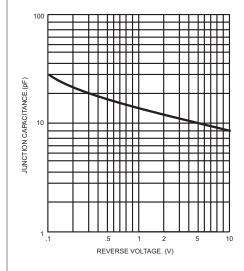
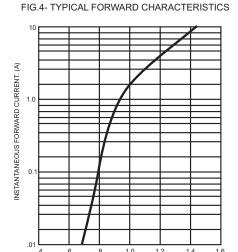


FIG.3- TYPICAL JUNCTION CAPACITANCE





FORWARD VOLTAGE. (V)