

1N4001G - 1N4007G



1.0 AMP. Glass Passivated Rectifiers **DO-41**

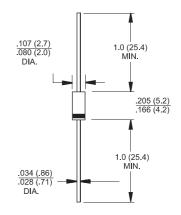


Features

- ♦ Glass passivated chip junction.
- ♦ High efficiency, Low VF
- ♦ High current capability
- ♦ High reliability
- High surge current capability
- ♦ Low power loss

Mechanical Data

- ♦ Cases: Molded plastic
- ♦ Epoxy: UL 94V-0 rate flame retardant
- Lead: Pure tin plated, lead free., solderable per MIL-STD-202, Method 208 guaranteed
- ♦ Polarity: Color band denotes cathode
- 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	1N	1N	1N	1N	1N	Units
		4001G	4002G	4003G	4004G	4005G	4006G	4007G	
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 = 75 °C	I _(AV)	1.0							Α
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							٧
Maximum DC Reverse Current @ T_A =25 °C at Rated DC Blocking Voltage @ T_A =125 °C	I _R	5.0 100							uA uA
Typical Junction Capacitance (Note 1)	Cj		10						
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$		80						
Operating and Storage Temperature Range	T_J, T_{STG}	- 65 to + 150							°C

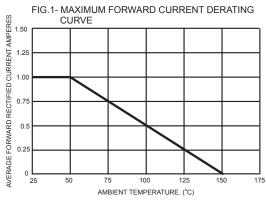
Notes: 1. Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.

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

Version: A06



RATINGS AND CHARACTERISTIC CURVES (1N4001G THRU 1N4007G)



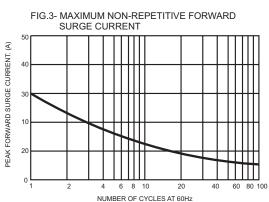


FIG.2- TYPICAL REVERSE CHARACTERISTICS

PER LEG

100

Tj=125°C

101

Tj=25°C

0.01

Tj=25°C

0.01

PERCENT RATED PEAK REVERSE VOLTAGE. (%)



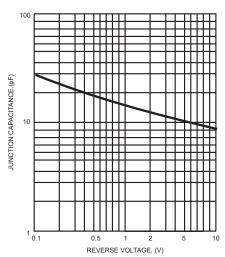


FIG.5- TYPICAL FORWARD CHARACTERISTICS

