

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

.107 (2.7) .080 (2.0) DIA. 1.0 (25.4) MIN. .205 (5.2) .166 (4.2) 1.0 (25.4) MIN. 1.0 (25.4) MIN. DIA.

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 = 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							А
Maximum Instantaneous Forward Voltage @1.0A	V _F	1.0							V
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							°C/W
Operating and Storage Temperature Range	T_J, T_{STG}	- 65 to + 150							°C

Notes:

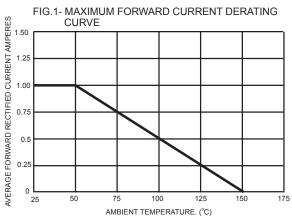
- 1. Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.
- 2. Mount on Cu-Pad Size 5mm x 5mm on P.C.B.

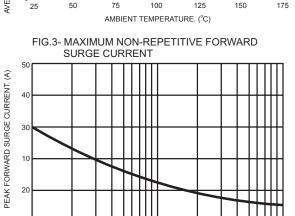
Version: A06



RATINGS AND CHARACTERISTIC CURVES (1N4001G THRU 1N4007G)

60 80 100





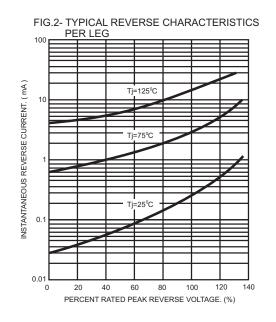


FIG.4- TYPICAL JUNCTION CAPACITANCE

4 6 8 10 20 NUMBER OF CYCLES AT 60Hz

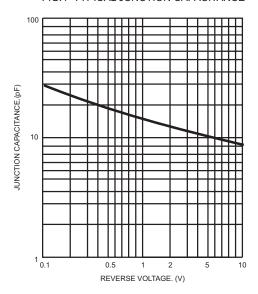
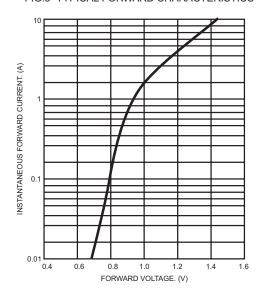


FIG.5- TYPICAL FORWARD CHARACTERISTICS



Version: A06