

1N4001GP THRU 1N4007GP

1.0 AMP. Glass Passivated Junction Plastic Rectifiers



Voltage Range 50 to 1000 Volts Current 1.0 Ampere

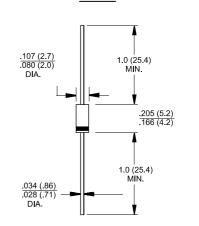
DO-41

Features

- ♦ High temperature metallurgically bonded construction
- Plastic material used carries Underwriters Laboratory Classification 94V-O
- Glass passivated cavity-free junction
- Capable of meeting environmental standards of MIL-S-19500
- 1.0 ampere operation at T_A=75°C and 55°C with no thermal runaway
- ♦ Typical I_R less than 0.1 uA
- High temperature soldering guaranteed: 350°C / 10 seconds, 0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

Mechanical Data

- ♦ Case: JEDEC DO-41 molded plastic over glass body
- Lead: Plated axial leads, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Mounting position: Any
- ♦ Weight: 0.012 ounce, 0.3 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	1N 4001GP	1N 4002GP	1N 4003GP	1N 4004GP	1N 4005GP	1N 4006GP	1N 4007GP	Units
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length $@T_A = 75^{\circ}C$	1.0							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	30							А
Maximum Instantaneous Forward Voltage @1.0A	1.1							V
Maximum DC Reverse Current @ T _A =25°C	5.0							uA
at Rated DC Blocking Voltage @ T _A =125℃	50							uA
Maximum Full Load Reverse Current , Full Cycle Average .375"(9.5mm) Lead Length $@T_A=75^{\circ}$	30							uA
Typical Junction Capacitance (Note 1)	8.0							pF
Typical Thermal Resistance R $ heta$ JA (Note 2)	55							°C/W
Operating and Storage Temperature Range T _J ,T _{STG}			-6	65 to +17	7 5			င

Notes: 1. Measured at 1 MHz and Applied Reverse Voltage of 4..0 Volts D.C.

2. Thermal Resistance from Junction to Ambient .375" (9.5mm) Lead Length.

.



RATINGS AND CHARACTERISTIC CURVES (1N4001GP THRU 1N4007GP)

