

1N4001SG THRU 1N4007SG

1.0 AMP. Glass Passivated Rectifiers

Voltage Range 50 to 1000 Volts Current 1.0 Ampere

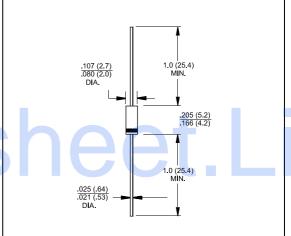
A-405

Features

- ♦ Low forward voltage drop
- ♦ High current capability
- → High reliability
- High surge current capability
- ♦ Ø 0.6mm leads

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: 250°C/10 seconds/.375",(9.5mm) lead lengths at 5 lbs.,(2.3kg) tension
- ♦ Weight: 0.22 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.

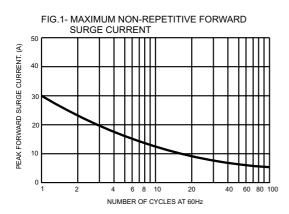
For capacitive load, derate current by 20%

Type Number	1N 4001SG	1N 4002SG	1N 4003SG	1N 4004SG	1N 4005SG	1N 4006SG	1N 4007SG	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 = 50°C	1.0							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	30							Α
Maximum Instantaneous Forward Voltage @1.0A	1.1 1.0					V		
Maximum DC Reverse Current @ T _A =25°C	5.0							uA
at Rated DC Blocking Voltage @ T _A =125°C	100							uA
Typical Junction Capacitance (Note)	15							pF
Operating and Storage Temperature Range T _J ,T _{STG}	- 65 to + 150							°C

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



RATINGS AND CHARACTERISTIC CURVES (1N4001SG THRU 1N4007SG)



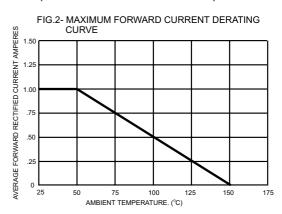


FIG.3- TYPICAL JUNCTION CAPACITANCE

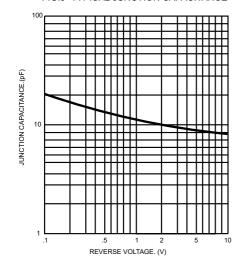


FIG.4- TYPICAL FORWARD CHARACTERISTICS

