



1N4001SG - 1N4007SG

1.0 AMP. Glass Passivated Rectifiers A-405

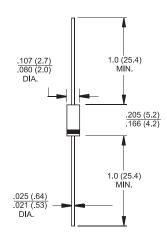


Features

- Glass passivated chip junction.
- High efficiency, Low VF
- High current capability
- High reliability
- High surge current capability
- Low power loss
- ϕ 0.6mm leads

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: 0.22 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	Symbol	1N 4001SG	1N 4002SG	1N 4003SG	1N 4004SG	1N 4005SG	1N 4006SG	1N 4007SG	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 °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							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	80							°C/W
Operating and Storage Temperature Range	T_J, T_{STG}	- 65 to + 150							°C

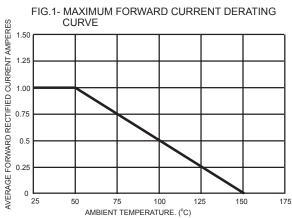
Notes:

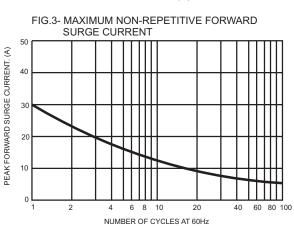
- 1. Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.
- 2. Mount on Cu-Pad Size 5mm x 5mm on P.C.B.

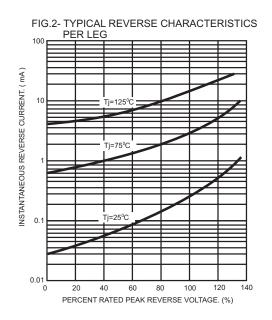
Version: A06



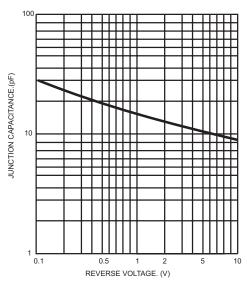
RATINGS AND CHARACTERISTIC CURVES (1N4001SG THRU 1N4007SG)



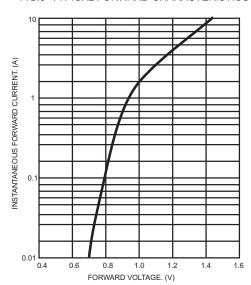












Version: A06