

Features

- ♦ Glass passivated chip junction
- ♦ High efficiency, Low VF
- ♦ High current capability
- ♦ High reliability
- ♦ High surge current capability
- ♦ Low power loss
- Green compound with suffix "G" on packing code & prefix "G" on datecode

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

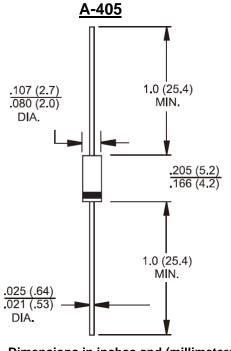
High temperature soldering guaranteed: 260°C/10s

/.375", (9.5mm) lead lengths at 5 lbs, (2.3kg) tension

H

1N4001SG - 1N4007SG

1.0 AMP. Glass Passivated Rectifiers



Dimensions in inches and (millimeters) Marking Diagram

- 1N400XSG G Y SGYWW WW
- = Specific Device Code
 - = Green Compound
 - = Year = Work Week

♦ Weight: 0.22 grams

Mechanical Data

Cases: Molded plastic

∻

∻

∻

∻

∻

Maximum Ratings and Electrical Characteristics

Rating at 25 $^\circ\!\mathrm{C}$ 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 $@T_A=50^\circC$	I _{F(AV)}	1							A
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 (Note 1) @ 1 A	$V_{\rm F}$	1.0						V	
Maximum DC Reverse Current at @ T _A =25 °C					5				uA
Rated DC Blocking Voltage @ T_A =125°C	I _R				100				uA
Typical Junction Capacitance (Note 2)	Cj	10							pF
Typical Thermal Resistance (Note 3)	R_{\thetaJA}	80						^o C/W	
Operating and Storage Temperature Range	T _J , T _{STG}	- 65 to + 150						°C	

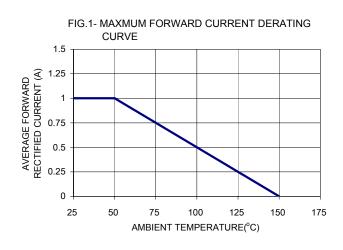
Note1: Pulse Test with PW=300 usec, 1% Duty Cycle

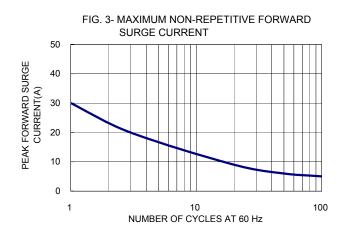
Note2: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

Note3: Mount on Cu-Pad Size 5mm × 5mm on P.C.B.

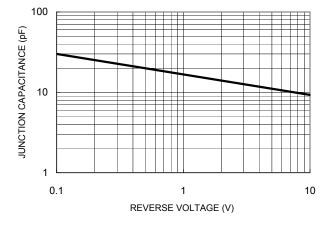


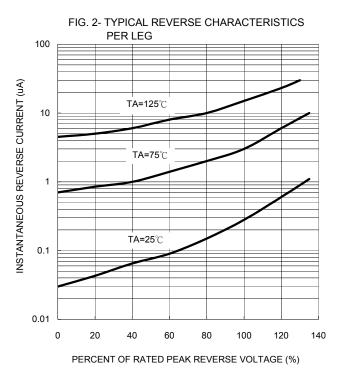
RATINGS AND CHARACTERISTIC CURVES (1N4001SG THRU 1N4007SG)

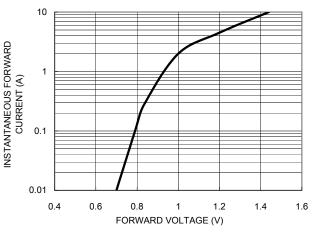














Version:C10