



ROHS

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Features

- ♦ Glass passivated chip junction
- ♦ High efficiency, Low VF
- ♦ High current capability
- ♦ High reliability
- ♦ High surge current capability
- ♦ Low power loss
- φ0.6mm leads
- Green compound with suffix "G" on packing code & prefix "G" on datecode

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/10s
 /.375", (9.5mm) lead lengths at 5 lbs, (2.3kg) tension
- ♦ Weight: 0.22 grams

Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

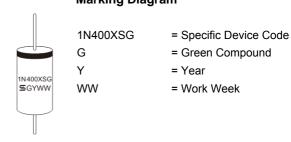
For capacitive load, derate current by 20%

A-405 .107 (2.7) .080 (2.0) DIA. .205 (5.2) .166 (4.2) 1.0 (25.4) MIN. 1.0 (25.4) MIN. 1.0 (25.4) MIN. 1.0 (25.4) MIN.

1N4001SG - 1N4007SG

1.0 AMP. Glass Passivated Rectifiers

<u>Dimensions in inches and (millimeters)</u> Marking Diagram



Symbol	1N 4001SG	1N 4002SG	1N 4003SG	1N 4004SG	1N 4005SG	1N 4006SG	1N 4007SG	Units
V_{RRM}	50	100	200	400	600	800	1000	V
V_{RMS}	35	70	140	280	420	560	700	V
V_{DC}	50	100	200	400	600	800	1000	V
I _{F(AV)}	1							Α
I _{FSM}	30							Α
V _F	1.0							V
	5							uA
I _R	100							uA
Cj	10							pF
$R_{\theta JA}$	80						°C/W	
T_J , T_{STG}	- 65 to + 150							οС
	V _{RRM} V _{RMS} V _{DC} I _{F(AV)} P I _{FSM} V _F I _R C _j R _{6JA}	V _{RRM} 50 V _{RMS} 35 V _{DC} 50 I _{F(AV)} V _F I _R Cj	V _{RRM} 50 100 V _{RMS} 35 70 V _{DC} 50 100 I _{F(AV)} I _{FSM} V _F I _R Cj R _{6JA}	V _{RRM} 50 100 200 V _{RMS} 35 70 140 V _{DC} 50 100 200 I _{F(AV)} I _{FSM} V _F I _R Cj R _{0JA}	V _{RRM}	V _{RRM} 50 100 200 400 600 V _{RMS} 35 70 140 280 420 V _{DC} 50 100 200 400 600 I _{F(AV)} 1 I _{FSM} 30 V _F 1.0 I _R 5 100 C _j 10 R _{θJA} 80	V _{RRM} 50 100 200 400 600 800 V _{RMS} 35 70 140 280 420 560 V _{DC} 50 100 200 400 600 800 I _{F(AV)} 1 30 V _F 1.0 5 100 5 100 10	V _{RRM} 50 100 200 400 600 800 1000 V _{RMS} 35 70 140 280 420 560 700 V _{DC} 50 100 200 400 600 800 1000 I _{F(AV)} 1 30

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

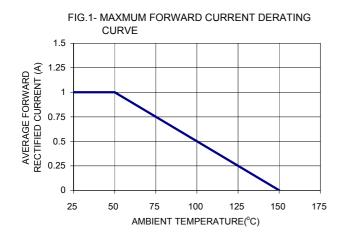
Note2: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

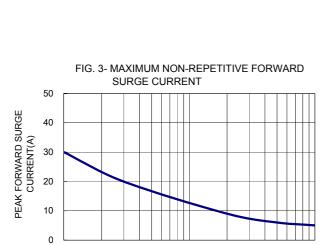
Note3: Mount on Cu-Pad Size 5mm × 5mm on P.C.B.

Version:C10



RATINGS AND CHARACTERISTIC CURVES (1N4001SG THRU 1N4007SG)

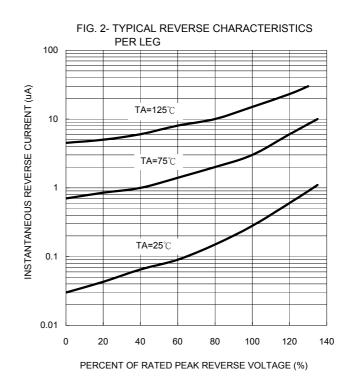


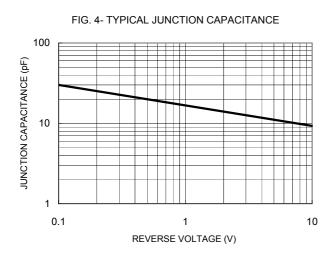


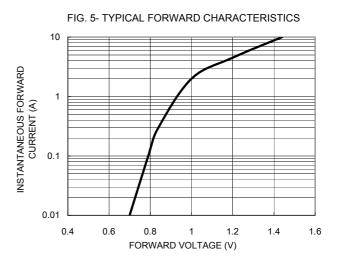
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NUMBER OF CYCLES AT 60 Hz

100







Version:C10

1