



ROHS

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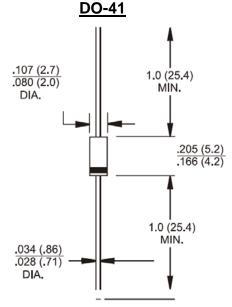
Features

- ♦ 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

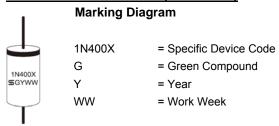
Mechanical Data

- ♦ Case: 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: 0.35 grams

1N4001 - 1N4007 1.0 AMPS. Silicon Rectifiers



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%

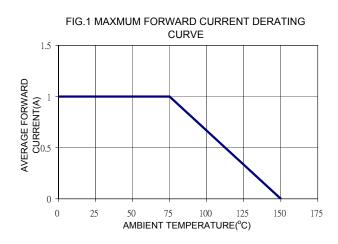
For capacitive load, derate current by 20%									
Type Number	Symbol	1N 4001	1N 4002	1N 4003	1N 4004	1N 4005	1N 4006	1N 4007	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length @T _A =75°C	I _{F(AV)}	1							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	30							А
Rating for Fusing (t<8.3ms)	I ² T	3.7							A^2S
Maximum Instantaneous Forward Voltage (Note 1) @ 1 A	V _F	1.0							V
Maximum Reverse Current @ Rated VR T_A =25 $^{\circ}$ C T_A =125 $^{\circ}$ C	I _R	5 50							uA
Maximum Full load Reverse Current, Full cycle Average .375"(9.5mm) Lead Lenfth @T _A =75°C	I _{R(AV)}	30						uA	
Typical Junction Capacitance (Note 2)	Cj	10						pF	
Typical Thermal Resistance	$R_{\theta jA}$				65				
	$R_{\theta jC}$	6							°C/W
	$R_{\theta jL}$	15							
Operating Temperature Range	T _J	- 65 to + 150							οС
Storage Temperature Range	T _{STG}	- 65 to + 150							οС

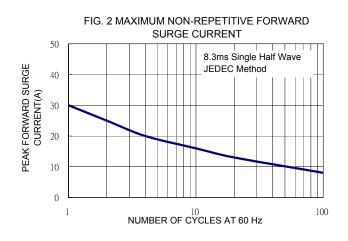
Note1: Pulse Test with PW=300 usec, 1% Duty Cycle

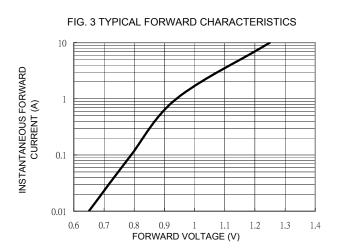
Note2: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

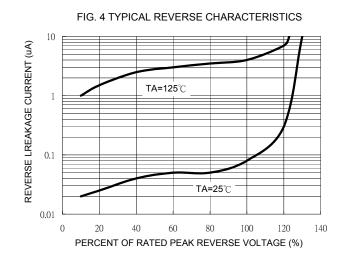


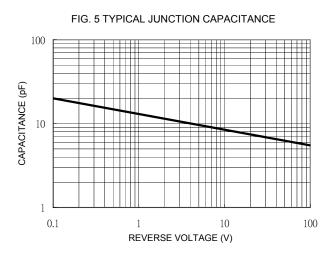
RATINGS AND CHARACTERISTIC CURVES (1N4001 THRU 1N4007)











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