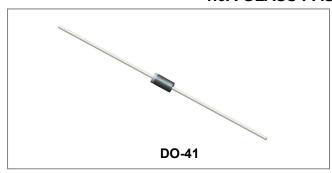






1N4001G THRU 1N4007G 1.0A GLASS PASSIVATED RECTIFIER



Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- This is a Pb Free Device
- "-HF" suffix is for Halogen Free Device
- . All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Circuit Diagram



Mechanical Data

- · Case: molded plastic
- Terminals: Plated leads, solderable per MIL-STD-202, Method 208
- Polarity: Cathode band
- Mounting Position: Any
- Weight: 0.34 grams(approx)

Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Type Number	Symbol	1N 4001G	1N 4002G	1N 4003G	1N 4004G	1N 4005G	1N 4006G	1N 4007G	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Average forward rectified output current @T _A = 75°C	Io				1.0				Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	30			А				
Forward Voltage @I _F =1.0A	V _{FM}				1.0				V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	I _{RM}	5.0 50			μΑ				
Typical Junction Capacitance (Note 2)	Сл				8				pF
Typical Thermal Resistance Junction to Ambient (Note 1)	Reja	100			°C/W				
Operating Junction Temperature Range	TJ			-(65 to +1	75			°C
Storage Temperature Range	T _{STG}			-(65 to +1	75			°C

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

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Ratings and Characteristics Curves

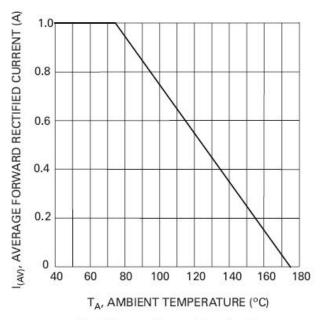
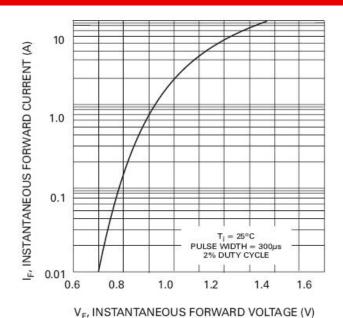
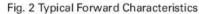


Fig. 1 Forward Current Derating Curve



1500 (1920) 10 100 (1920) 10 (19



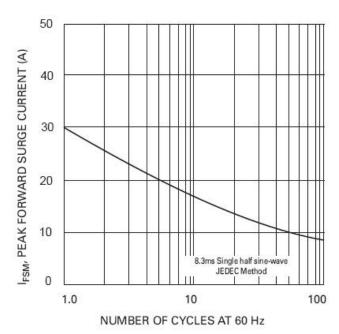


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

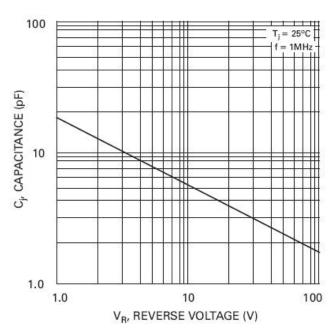


Fig. 4 Typical Junction Capacitance

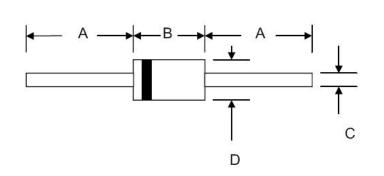
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Mechanical Dimensions DO-41



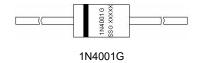
SYMBOL	Millin	neters	Inches			
OTMBOL	Min.	Max.	Min.	Max.		
А	25.4	-	1.000	-		
В	4.06	5.21	0.160	0.205		
С	0.71	0.864	0.028	0.034		
D	2.00	2.72	0.079	0.107		

Ordering Information

Device	Package	Shipping		
1N4001G-1N4007G	DO-41 (Pb-Free)	5000pcs / Tape		
1N4001GTA- 1N4007GTA	DO-41 (Pb-Free)	5000pcs / Tape		

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Marking Diagram



 1N4001G
 = Type Number

 SSG
 = SSG

 HF
 = Halogen Free

 YY
 = Year

 WW
 = Week

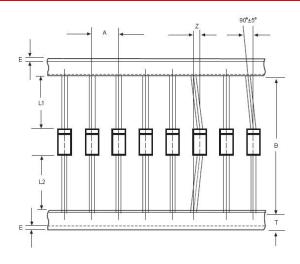
 L
 = Lot Number

Where XXXXX is YYWWL

1N4001G-HF

Cautions: Molding resin Epoxy resin UL:94V-0

Carrier Tape Specification DO-41



SYMBOL	Millimeters			
	Min.	Max.		
А	4.50	5.50		
В	50.9	53.9		
Z	-	1.20		
T	5.60	6.40		
E	-	0.80		
IL1-L2I	-	1.0		

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