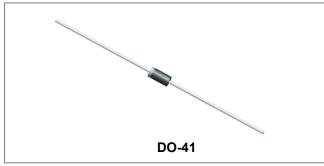


1N4001G THRU 1N4007G

Technical Data Data Sheet N0544, Rev. A



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

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 @T_A=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} Vr	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	lo				1.0				А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	30				A			
Forward Voltage @I _F =1.0A	Vfm				1.0				V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	IRM				5.0 50				μA
Typical Junction Capacitance (Note 2)	CJ				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	Tstg			-(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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Circuit Diagram



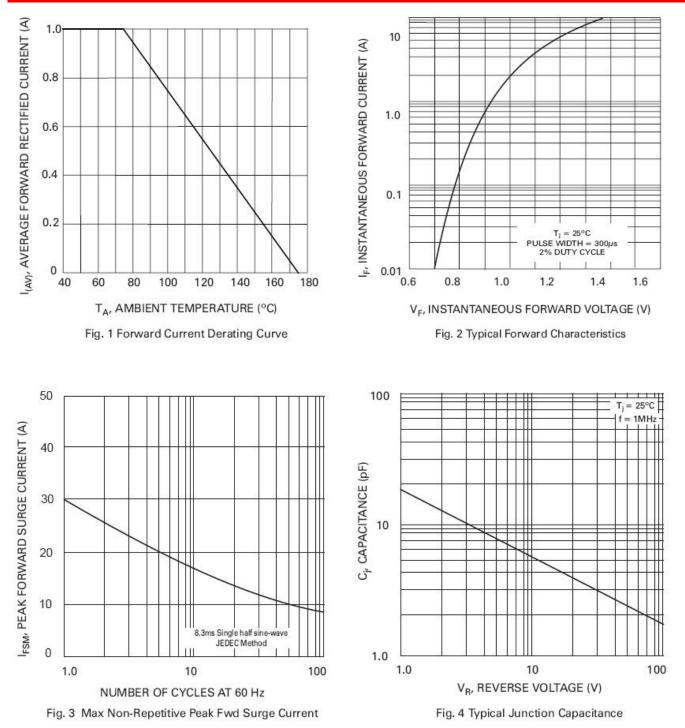


Technical Data Data Sheet N0544, Rev. A

THRU 1N4007G Rohs po

1N4001G

Ratings and Characteristics Curves



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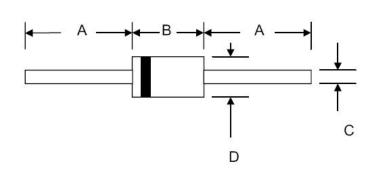


Technical Data Data Sheet N0544, Rev. A





Mechanical Dimensions DO-41



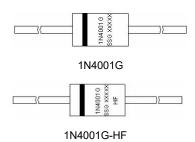
SYMBOL	Millin	neters	Inches			
	Min.	Max.	Min.	Max.		
А	25.4	-	1.000	-		
В	4.06	5.21	0.160	0.205		
С	0.71	0.864	0.028	0.034		
D	2.00	2.72	0.079	0.107		

Ordering Information

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

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

Marking Diagram



Where XXXXX is YYWWL

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1N4001G = Type Number
SSG = SSG
```

336	- 336
HF	= Halogen Free

=	١	/ear

YY

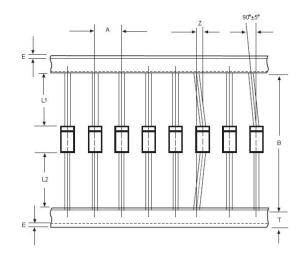
L

WW = Week

= Lot Number

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		
Т	5.60	6.40		
E	-	0.80		
IL1-L2I	-	1.0		

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