



1N4001G THRU 1N4007G

Glass Passivated Rectifiers

Reverse Voltage - 50 to 1000Volts Forward Current - 1.0 Amperes

Features

- Low cost
- Low reverse leakage current
- Low forward voltage drop
- High surge capacity
- Meet UL flammability classification 94V-0

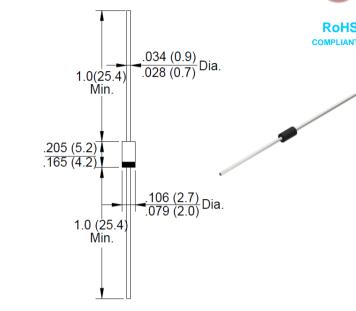
Mechanical Data

- Case: JEDEC DO-41 molded plastic
- Polarity: Color band denotes cathode
- Mounting position: Any
- AEC-Q101 qualified

Applications

 For use in low voltage, high frequency inverters, polarity protection applications

DO-41



Package Outline Dimensions in Inches (Millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%.

Characteristics	Symbol	1N4001G	1N4002G	1N4003G	1N4004G	1N4005G	1N4006G	1N4007G	Unit	
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V	
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V	
Maximum Average Forward Rectified Current @Ta=75 ℃	I(AV)	1.0							Α	
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	IFSM	30							А	
Superimposed on Rated Load (JEDEC Method)	IFSIVI	11-2M							Α	
I ² t Rating for Fusing (t<8.3mS)	l ² t	3.7							A ² s	
Peak Forward Voltage at 1.0A DC (Note1)	VF	1.1							V	
Maximum DC Reverse Current @TJ=25°C	In.	5.0							uA	
at Rated DC Blocking Voltage @TJ=125°C	IK	50							uA	
Typical Junction Capacitance (Note 2)	Сл	15							pF	
Typical Thermal Resistance Junction to Case	Rejc	50							°C/W	
Operating Junction Temperature Range	TJ	-55 to+150							$^{\circ}\!\mathbb{C}$	
Storage Temperature Range	Тѕтс	-55 to+150							$^{\circ}$	

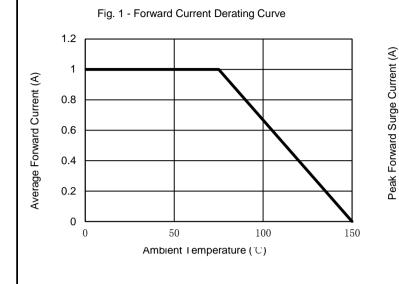
Notes: 1. 300uS pulse width, 2%duty cycle.

- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.
- 3. The typical data above is for reference only .

1N400*4G-A-00-A001

Rev. 10, 1-Nov-2019





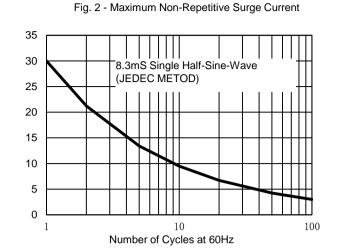


Fig. 3 - Typical Reverse Characteristics 200 100 T_J=150° C Instantaneous Reverse Current (mA) TJ=125° 10 TJ=100° С T_J=75° C T_J=25° C 0.1 100 20 40 60

Percent of Rated Peak Reverse Voltage (%)

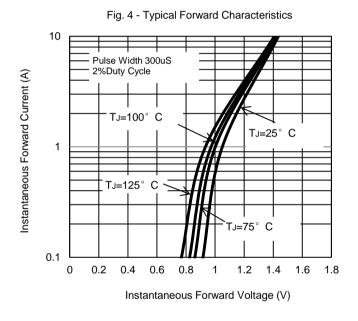
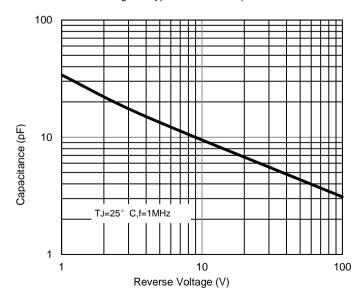


Fig. 5 - Typical Junction Capacitance



The curve above is for reference only.

1N400*4G-A-00-A001 Rev. 10, 1-Nov-2019



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