

# 1N5400G THRU 1N5408G

3.0 AMPS. Glass Passivated Rectifiers

#### **Features**

· Low forward voltage drop

· High current capability

· High reliability

· High surge current capability

· Plastic material-UL flammability 94V-0

### **Mechanical Data**

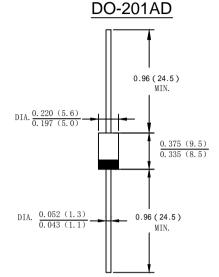
· Case: Molded plastic DO-201AD

 Terminals: Plated leads solderable per MIL-STD-202, Method 208 guaranteed

· Polarity: Color band dentes cathode end

Mounting Position: AnyMaking: Type Number

Lead Free: For RoHS/Lead Free Version



Dimensions in inches and (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%

Type Number	SYMBOL	1N 5400G	1N 5401G	1N 5402G	1N 5404G	1N 5406G	1N 5407G	1N 5408G	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current.375"(9.5mm) lead length @T∟=100°C	IF(AV)	3.0							Α
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	150							Α
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	l²t	93.375							A <sup>2</sup> s
Forward Voltage @IF=3.0A	$V_{FM}$	1.0							V
Peak Reverse Current @T <sub>A</sub> =25°C	<b>I</b> R	5.0 100							uA
At Rated DC Blocking Voltage @T <sub>A</sub> =125°C	IR IR								
Typical Junction Capacitance (Note 1)	Сл	30							pF
Typical Thermal Resistance Junction to Ambient(Note 2)	RөJA	20							°C/W
Operating Temperature Range	Тл	-55 to +150							$^{\circ}$
Storage Temperature Range	Тѕтс	-55 to +150							$^{\circ}\!\mathbb{C}$

Note:1. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

2. Leads maintained at ambient temperature at a distance of 9.5mm from the case

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FIG. 1 – FORWARD CURRENT DERATING CURVE

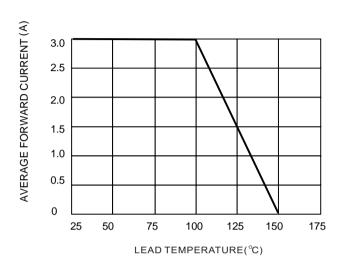
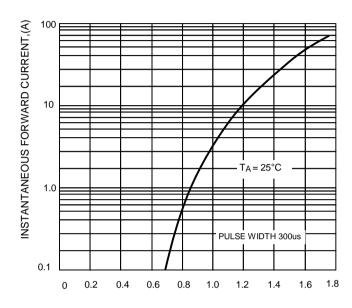
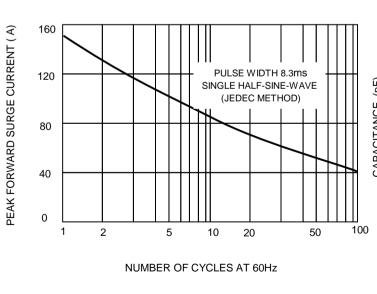


FIG.2-TYPICAL FORWARD CHARACTERISTICS

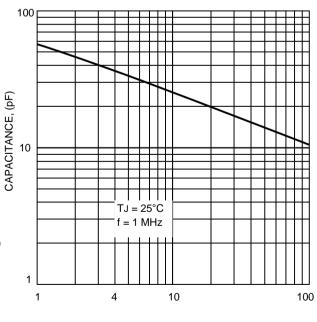


INSTANTANEOUS FORWARD VOLTAGE (V)





#### FIG.4 – TYPICAL JUNCTION CAPACITANCE



REVERSE VOLTAGE (V)



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