



# 1N5408G

## GLASS PASSIVATED JUNCTION PLASTIC RECTIFIERS

<b>Voltage</b>	<b>1000 V</b>	<b>Current</b>	<b>3 A</b>
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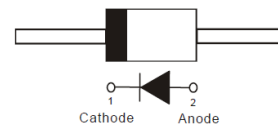
### Features

- Glass passivated chip junction
- Low forward voltage drop
- Low leakage current
- Plastic package has underwriters laboratory flammability classification 94V-O
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

### Mechanical Data

- Case: DO-201AD Package
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.04 ounces, 1.122 grams

DO-201AD



### Maximum Ratings and Thermal Characteristics (T<sub>A</sub> = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	1000	V
Maximum Rms Voltage	V <sub>RMS</sub>	700	V
Maximum Dc Blocking Voltage	V <sub>DC</sub>	1000	V
Maximum Average Forward Current	I <sub>F(AV)</sub>	3	A
Peak Forward Surge Current: 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	I <sub>FSM</sub>	200	A
Typical Junction Capacitance Measured at 1 MHz And Applied V <sub>R</sub> = 4 V	C <sub>J</sub>	40	pF
Typical Thermal Resistance	R <sub>θJA</sub> <sup>(1)</sup>	55	°C/W
	R <sub>θJL</sub> <sup>(2)</sup>	30	
Operating Junction Temperature Range	T <sub>J</sub>	-55~150	°C
Storage Temperature Range	T <sub>STG</sub>	-55~150	°C



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## Electrical Characteristics ( $T_A = 25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	$V_F$	$I_F = 1.5\text{ A}, T_J = 25^\circ\text{C}$	-	0.84	-	V
		$I_F = 3\text{ A}, T_J = 25^\circ\text{C}$	-	-	1.2	
		$I_F = 1.5\text{ A}, T_J = 125^\circ\text{C}$	-	0.71	-	
		$I_F = 3\text{ A}, T_J = 125^\circ\text{C}$	-	0.75	-	
Reverse Current	$I_R$	$V_R = 1000\text{ V}, T_J = 25^\circ\text{C}$	-	-	5	uA
		$V_R = 1000\text{ V}, T_J = 125^\circ\text{C}$	-	8	-	

**NOTES:**

1. The testing condition of the thermal resistance (junction to ambient) is based on 10 mm lead length between mini copper pad
2. The testing condition of the thermal resistance (junction to lead) is based on 10 mm lead length between two 10 cm x 10cm copper pad



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## TYPICAL CHARACTERISTIC CURVES

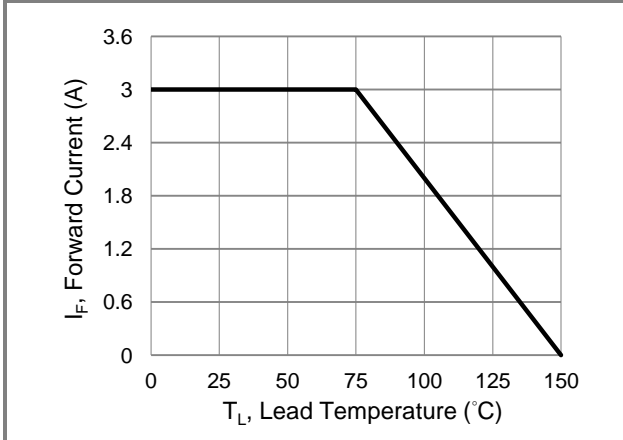


Fig.1 Forward Current Derating Curve

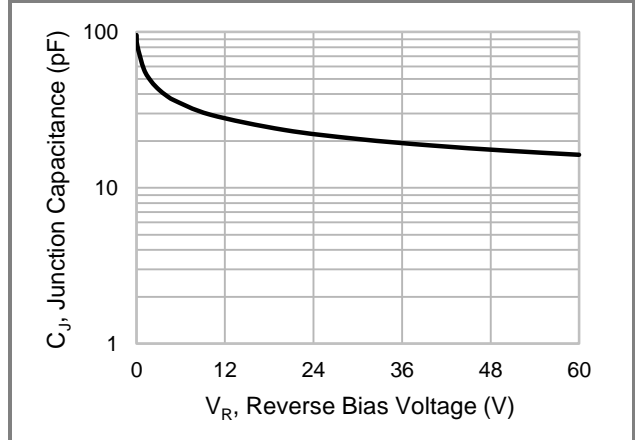


Fig.2 Typical Junction Capacitance

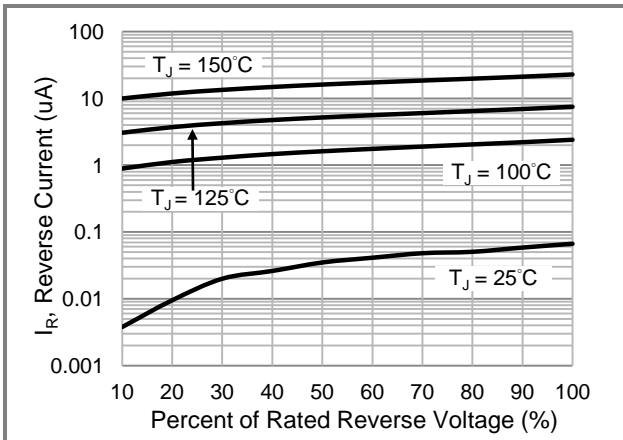


Fig.3 Typical Reverse Characteristics

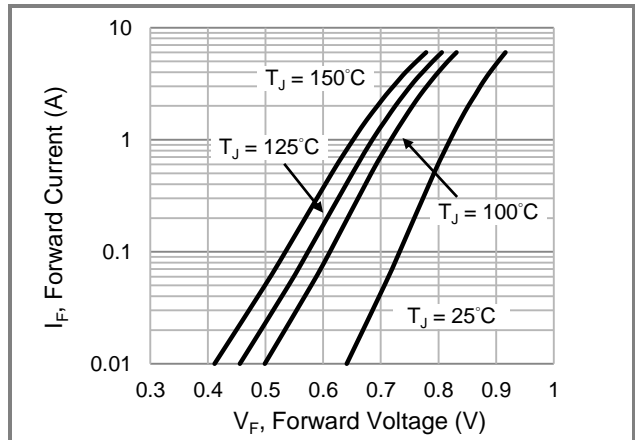


Fig.4 Typical Forward Characteristics

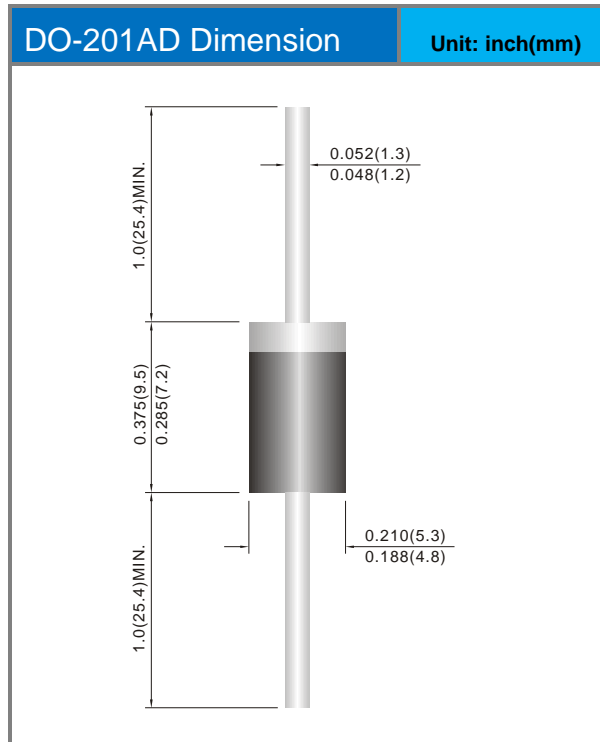


# 1N5408G

## Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
1N5408G_AY_00001	DO-201AD	1.25K pcs / Ammo	1N5408G	Halogen free

## Packaging Information & Mounting Pad Layout





## 1N5408G

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