



1N5406G-1N5408G(LS)

GLASS PASSIVATED RECTIFIER

REVERSE VOLTAGE – 600 to 1000 Volts FORWARD CURRENT – 3.0 Amperes

FEATURES

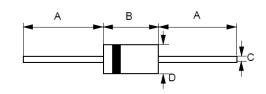
- · Glass passivated chip
- · Low reverse leakage current
- · Low forward voltage drop
- · High current capability
- Plastic material has UL flammability classification 94V-0
- Lead-Free Finish; RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)

MECHANICAL DATA

Case: JEDEC DO-201AD molded plastic
Polarity: Color band denotes cathode
Weight: 0.04 ounces, 1.1 grams

• Mounting position : Any

DO-201AD



DO-201AD				
Dim	Min.	Max.		
А	25.4			
В	7.30	9.50		
С	1.20	1.30		
D	4.80	5.30		
All Dimensions in millimeter				

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER		SYMBOL	1N5406G	1N5407G	1N5408G	UNIT
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	600	800	1000	V
Maximum RMS Voltage		V_{RMS}	420	560	700	V
Maximum DC Blocking Voltage		VDC	600	800	1000	V
Maximum Average Forward Rectified Current	@T _A =55°C	I _(AV)	3.0			Α
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC METHOD)		I _{FSM}	125			Α
I²t Rating for fusing (3ms≤t ≤8.3ms)		I ² t	65			A ² S
Maximum forward Voltage at 3.0A DC		VF	1.1			V
Maximum DC Reverse Current at Rated DC Blocking Voltage	@T _J =25°C @T _J =125°C	lr	5 100			uA
Typical Junction Capacitance (Note 4)		Ст	40			pF
Typical Thermal Resistance (Note 5)		R _{thJA} R _{thJL} R _{thJC}	22 10 6		°C/W	
Operating and storage temperature range		T _J ,T _{STG}	-55 to +150			°C
ote :					REV-10 Oct-202	1 KDDE01

Note:

- REV-10, Oct-2021, KDDF01
- 1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.
- 2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
- 3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 4. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 5. Thermal Resistance Junction to Ambient, Lead and Case.



RATING AND CHARACTERISTIC CURVES 1N5406G-1N5408G

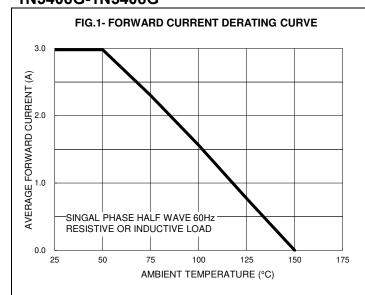


FIG.2- MAXIMUM NON-REPETITIVE SURGE CURRENT

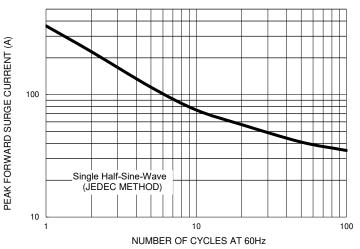


FIG.3- TYPICAL JUNCTION CAPACITANCE

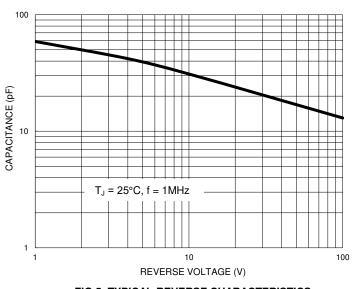


FIG.4- TYPICAL FORWARD CHARACTERISTICS

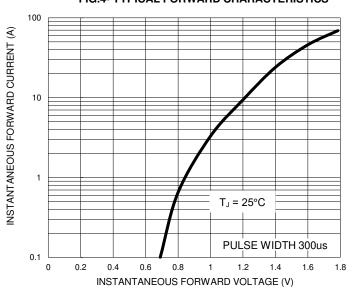
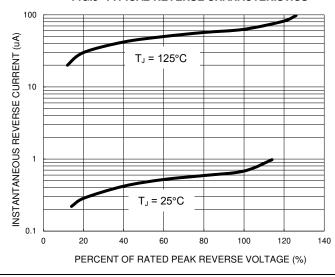


FIG.5- TYPICAL REVERSE CHARACTERISTICS

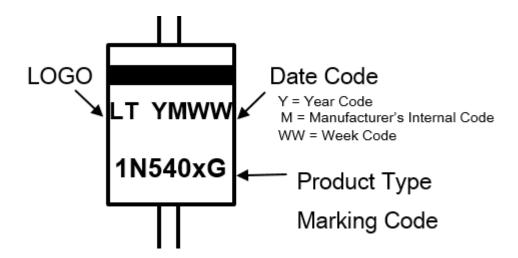




Ordering Information:

Part Number	Case	Packaging
1N5406G_HF	DO-201AD	1200pcs/Reel
1N5407G_HF	DO-201AD	1200pcs/Reel
1N5408G_HF	DO-201AD	1200pcs/Reel

Marking Information:



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