



1N4006G-1N4007G(LS)

GLASS PASSIVATED RECTIFIER

REVERSE VOLTAGE – 800 to 1000 Volts FORWARD CURRENT – 1.0 Amperes

FEATURES

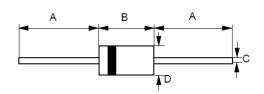
- · Glass passivated chip
- · Low reverse leakage current
- · Low forward voltage drop
- · High current capability
- Plastic material has UL flammability classification 94V-0
- Lead-Free Finish; RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)

MECHANICAL DATA

Package: JEDEC DO-41 molded plastic
Polarity: Color band denotes cathode
Weight: 0.012 ounces, 0.34 grams

• Mounting position : Any

DO-41



DO-41					
Dim	Min.	Max.			
Α	25.4	-			
В	4.10	5.20			
С	0.71 ø	0.86 ø			
D	2.00 ø	2.70 ø			
All Dimensions in millimeter					

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

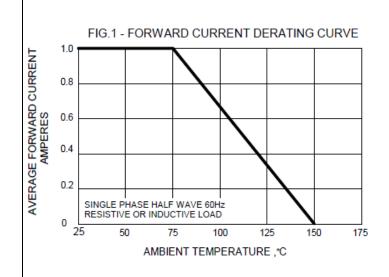
Ratings at 25°C ambient temperature unless otherwise specified.

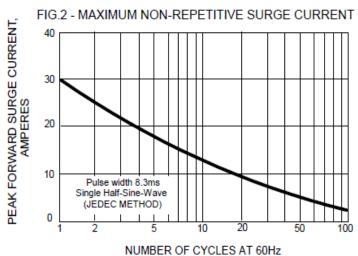
PARAMETER		SYMBOL	1N4006G	1N4007G	UNIT
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	800	1000	V
Maximum RMS Voltage		V_{RMS}	560	700	V
Maximum DC Blocking Voltage		VDC	800	1000	V
Maximum Average Forward Rectified Current	@T _A =75°C	I _(AV)	1.0		А
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC METHOD)		I _{FSM}	30		А
Maximum forward Voltage at 1.0A DC		VF	1.1		V
Maximum DC Reverse Current at Rated DC Blocking Voltage	@T _J =25°C @T _J =125°C	I _R	5 50		uA
Typical Junction Capacitance (Note 4)		C _T	10		pF
Typical Thermal Resistance (Note 5)		R _{thJA}	45		°C/W
Operating Temperature Range		TJ	-55 to +150		°C
Storage Temperature Range		T _{STG}	-55 to +150		°C

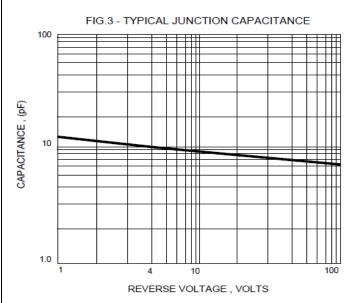
Note: REV.7, Oct-2021, KDDC01

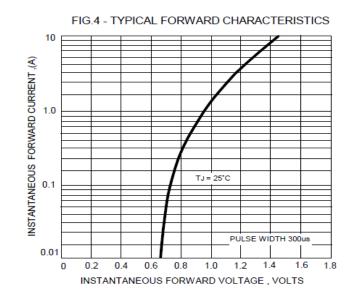
- 1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.
- 2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
- 3. 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.

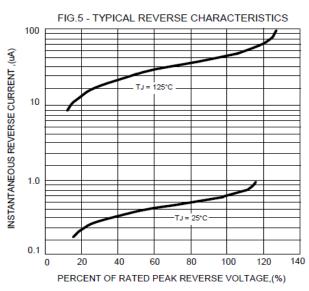
RATING AND CHARACTERISTIC CURVES 1N4006G-1N4007G









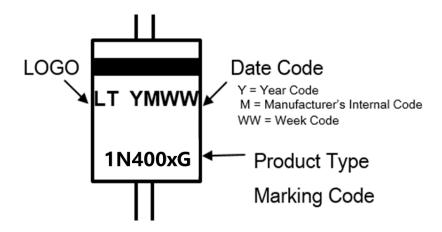




Ordering Information:

Part Number	Deskons	Packing		
Part Number	Package	Qty.	Carrier	
1N4006G_HF-A52	DO-41	3000pcs	Ammo52	
1N4007G_HF	DO-41	5000pcs	Reel	
1N4007G_HF-A52	DO-41	3000pcs	Ammo52	

Marking Information:





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