

## Product Summary

V <sub>RRM</sub> (V)	I <sub>F</sub> (A)	V <sub>F</sub> Max (V) @ I <sub>F</sub> = 2A	I <sub>R</sub> Max (μA)
1000	2.0	1.1	200

## Mechanical Data

- Package: JEDEC DO-15 Molded Plastic
- Polarity: Color Band Denotes Cathode
- Package Material: Molded Plastic, "Green" Molding Compound  
UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020
- Terminals: Finish – Matte Tin Plated Leads, Solderable per MIL-STD-202, Method 208
- Weight: 0.4 grams (Approximate)
- Mounting Position: Any

## Features

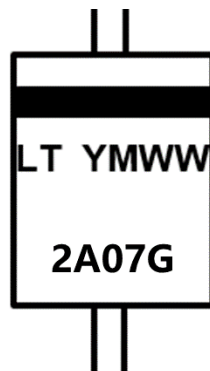
- Glass Passivated Chip
- Low Reverse Leakage Current
- Low Forward Voltage Drop
- High Current Capability
- Plastic Material Has UL Flammability Classification 94V-0
- Lead-Free Finish; RoHS Compliant (Notes 1 & 2)**
- Halogen and Antimony Free. "Green" Device (Note 3)**
- For automotive applications requiring specific change control (i.e. parts qualified to AEC-Q100/101/200, PPAP capable, and manufactured in IATF 16949 certified facilities), please [contact us](#) or your local Diodes representative. <https://www.diodes.com/quality/product-definitions/>**

## Ordering Information (Note 4)

Part Number	Package	Packing	
		Qty.	Carrier
2A07G_HF	DO-15	4000	Reel
2A07G_HF-A52	DO-15	2000	Ammo 52

- Notes:
- EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.
  - 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.
  - Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
  - For packaging details, go to our website at <https://www.diodes.com/design/support/packaging/diodes-packaging/>.

## Marking Information



LT = Logo  
2A07G = Product Type Marking Code  
Y = Year Code (ex: 2 = 2022)  
M = Manufacturer's Internal Code  
WW = Week Code (01 to 53)

**Maximum Ratings** (@T<sub>A</sub> = +25°C, unless otherwise specified.)

Characteristic	Symbol	Value	Unit
Maximum Recurrent 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 Rectified Current	I <sub>F(AV)</sub>	2.0	A
	@T <sub>C</sub> = +120°C		
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	65	A
I <sup>2</sup> t Rating for Fusing (3ms ≤ t ≤ 8.3ms)	I <sup>2</sup> t	17.5	A <sup>2</sup> s
Operating Temperature Range	T <sub>J</sub>	-55 to +150	°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150	°C

**Thermal Characteristics**

Characteristic	Symbol	Typ	Unit
Typical Thermal Resistance (Note 5)	R <sub>θJC</sub>	12	°C/W

**Electrical Characteristics** (@T<sub>A</sub> = +25°C, unless otherwise specified.)

Parameter	Symbol	Value	Unit
Maximum Forward Voltage at 2.0A DC	V <sub>F</sub>	1.1	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	5.0 200	μA
	@T <sub>J</sub> = +25°C @T <sub>J</sub> = +125°C		
Typical Junction Capacitance (Note 6)	C <sub>T</sub>	40	pF

Notes: 5. Thermal resistance junction to case.  
6. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

FIG.1 - FORWARD CURRENT DERATING CURVE

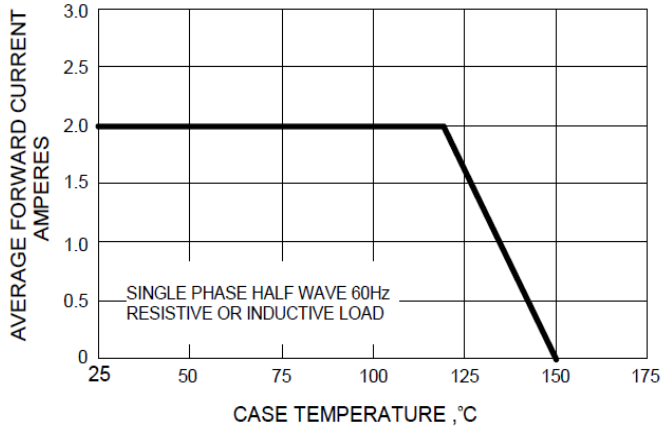


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

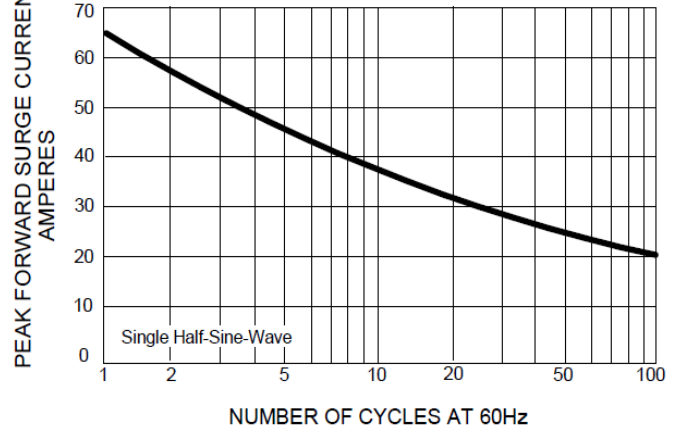


FIG.3 - TYPICAL JUNCTION CAPACITANCE

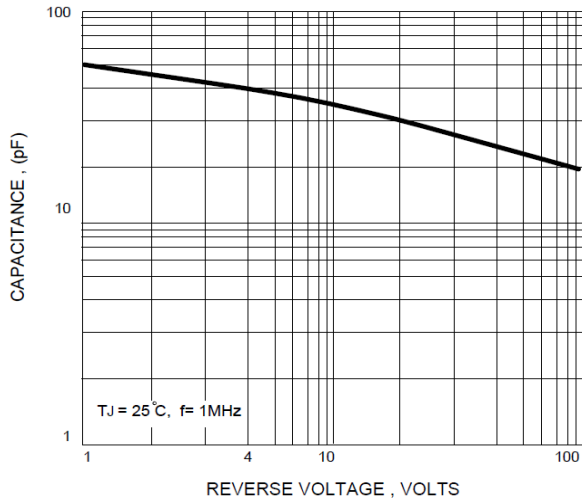


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

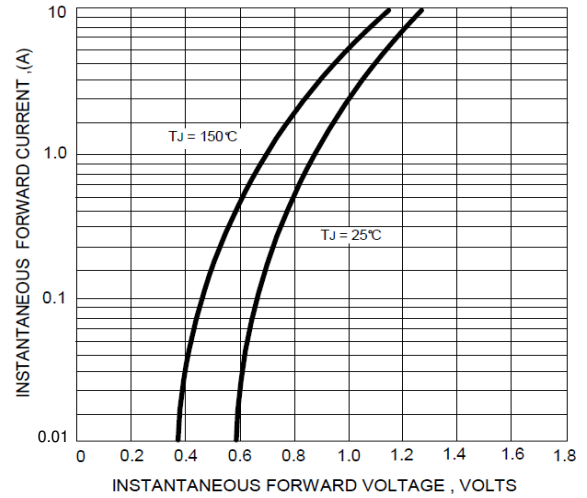
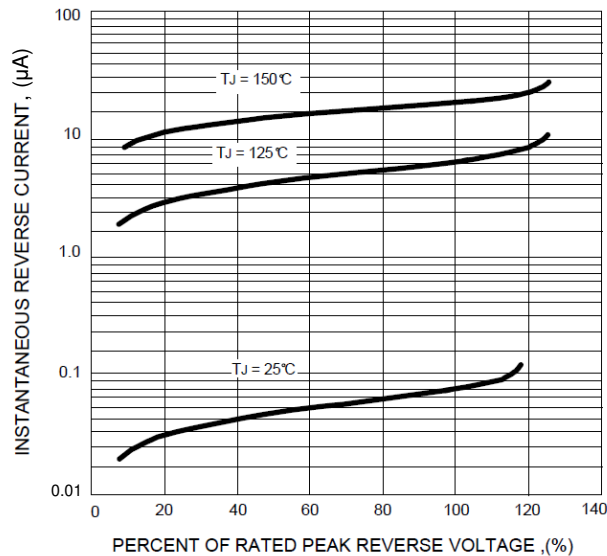


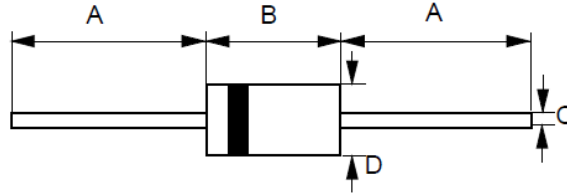
FIG.5 - TYPICAL REVERSE CHARACTERISTICS



**Package Outline Dimensions**

Please see <http://www.diodes.com/package-outlines.html> for the latest version.

DO-15



DO-15		
Dim	Min	Max
A	25.4	--
B	5.80	7.60
C	0.71 $\phi$	0.86 $\phi$
D	2.60 $\phi$	3.60 $\phi$
All Dimensions in millimeter		

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