



A Product Line of Diodes Incorporated

LITE-ON SEMICONDUCTOR

2A07G(LS)

GLASS PASSIVATED RECTIFIER

Product Summary

V _{RRM} (V)	I _F (A)	V _F Max (V) @ I _F = 2A	I _R 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 (€3)
- 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 <u>contact us</u> or your local Diodes representative. <u>https://www.diodes.com/quality/product-definitions/</u>

Ordering Information (Note 4)

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

Notes: 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. 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)





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Maximum Ratings (@T_A = +25°C, unless otherwise specified.)

Characteristic		Symbol	Value	Unit
Maximum Recurrent Peak Reverse Voltage		Vrrm	1000	V
Maximum RMS Voltage		VRMS	700	V
Maximum DC Blocking Voltage		V _{DC}	1000	V
Maximum Average Forward Rectified Current	@T _C = +120°C	lf(AV)	2.0	А
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)		IFSM	65	А
I ² t Rating for Fusing (3ms \leq t \leq 8.3ms)		l ² t	17.5	A ² s
Operating Temperature Range		TJ	-55 to +150	°C
Storage Temperature Range		T _{STG}	-55 to +150	°C

Thermal Characteristics

Characteristic	Symbol	Тур	Unit
Typical Thermal Resistance (Note 5)	Rejc	12	°C/W

Electrical Characteristics (@TA = +25°C, unless otherwise specified.)

Parameter		Symbol	Value	Unit
Maximum Forward Voltage at 2.0A DC		VF	1.1	V
Maximum DC Reverse Current	@T」= +25°C	IR	5.0	μA
at Rated DC Blocking Voltage	@TJ = +125°C	IK	200	μΛ
Typical Junction Capacitance (Note 6)		Ст	40	pF

Notes:

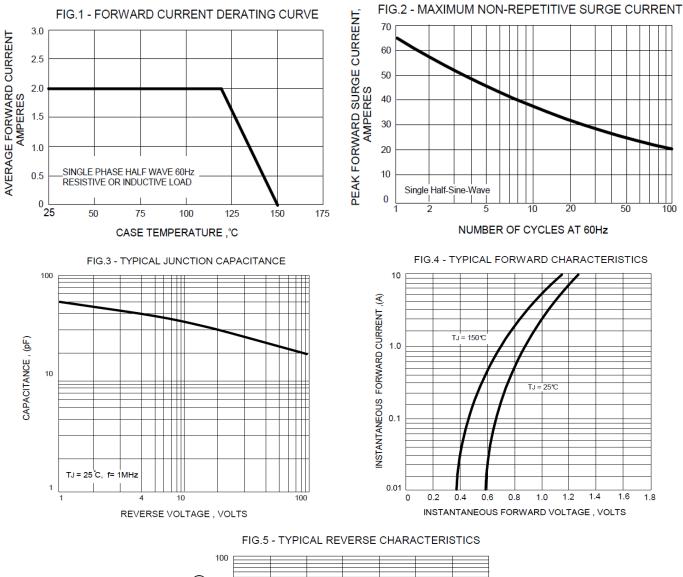
Thermal resistance junction to case.
Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

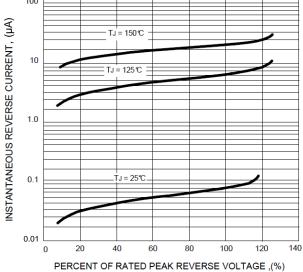


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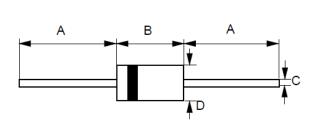


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Package Outline Dimensions

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



DO-15

DO-15		
Dim	Min	Max
Α	25.4	
В	5.80	7.60
С	0.71ø	0.86ø
D	2.60ø	3.60ø
All Dimensions in millimeter		



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