

Features and Benefits

- Glass Passivated Die Construction
- High Current Capability and Low Forward Voltage Drop
- Surge Overload Rating to 125A Peak
- **Lead-Free Finish; RoHS Compliant (Notes 1 & 2)**

Mechanical Data

- Case: DO-201AD
- Case Material: Molded Plastic. 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 638
- Polarity: Cathode Band
- Marking: Type Number
- Weight: 1.12 grams (approximate)

Ordering Information (Note 3)

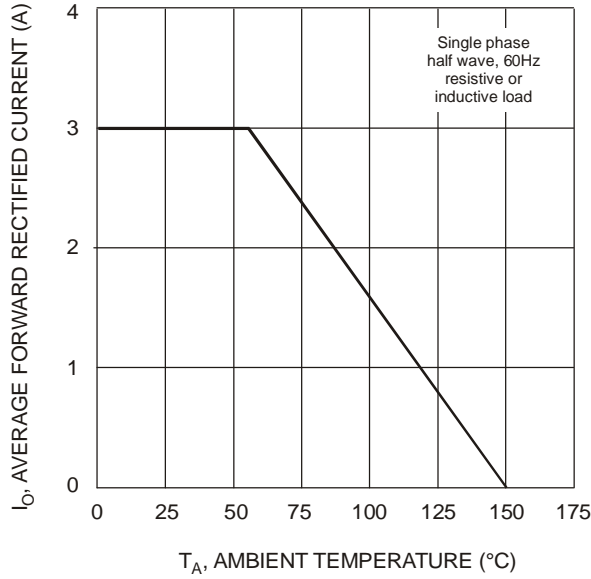
Device	Packaging	Shipping
1N5400G-B	DO-201AD	500/Bulk
1N5400G-T	DO-201AD	1.2K/Tape & Reel, 13-inch
1N5401G-B	DO-201AD	500/Bulk
1N5401G-T	DO-201AD	1.2K/Tape & Reel, 13-inch
1N5402G-B	DO-201AD	500/Bulk
1N5402G-T	DO-201AD	1.2K/Tape & Reel, 13-inch
1N5403G-B	DO-201AD	500/Bulk
1N5403G-T	DO-201AD	1.2K/Tape & Reel, 13-inch
1N5404G-B	DO-201AD	500/Bulk
1N5404G-T	DO-201AD	1.2K/Tape & Reel, 13-inch
1N5405G-B	DO-201AD	500/Bulk
1N5405G-T	DO-201AD	1.2K/Tape & Reel, 13-inch
1N5406G-B	DO-201AD	500/Bulk
1N5406G-T	DO-201AD	1.2K/Tape & Reel, 13-inch
1N5407G-B	DO-201AD	500/Bulk
1N5407G-T	DO-201AD	1.2K/Tape & Reel, 13-inch
1N5408G-B	DO-201AD	500/Bulk
1N5408G-T	DO-201AD	1.2K/Tape & Reel, 13-inch

Maximum Ratings and Electrical Characteristics @T_A = 25°C unless otherwise specified

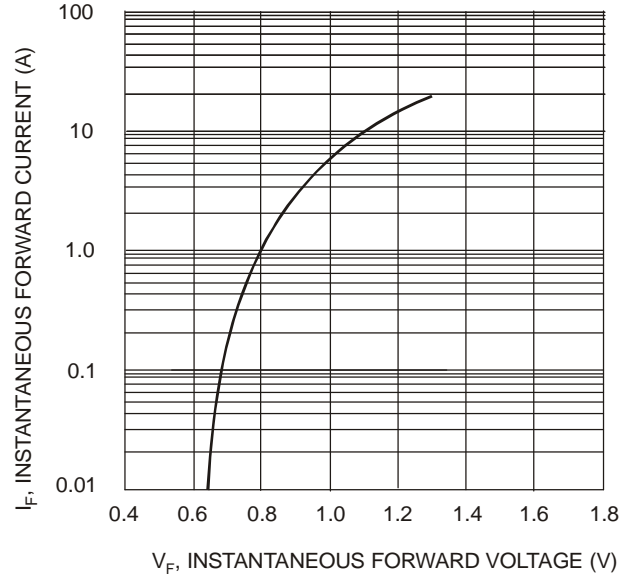
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Characteristic	Symbol	1N5400G	1N5401G	1N5402G	1N5403G	1N5404G	1N5405G	1N5406G	1N5407G	1N5408G	Unit
Peak Repetitive Reverse Voltage	V _{RRM}										
Working Peak Reverse Voltage	V _{RWM}	50	100	200	300	400	500	600	800	1000	V
DC Blocking Voltage	V _R										
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	210	280	350	420	580	700	V
Average Rectified Output Current (Note 4)	I _O	3.0									A
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	125									A
Forward Voltage @ I _F = 3.0A	V _{FM}	1.1									V
Peak Reverse Current @ T _A = 25°C	I _{RM}	5.0									μA
at Rated DC Blocking Voltage @ T _A = 125°C		100									
Typical Reverse Recovery Time (Note 5)	t _{rr}	2.0									μs
Typical Total Capacitance (Note 6)	C _T	40									pF
Typical Thermal Resistance Junction to Ambient	R _{θJA}	16									°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +150									°C

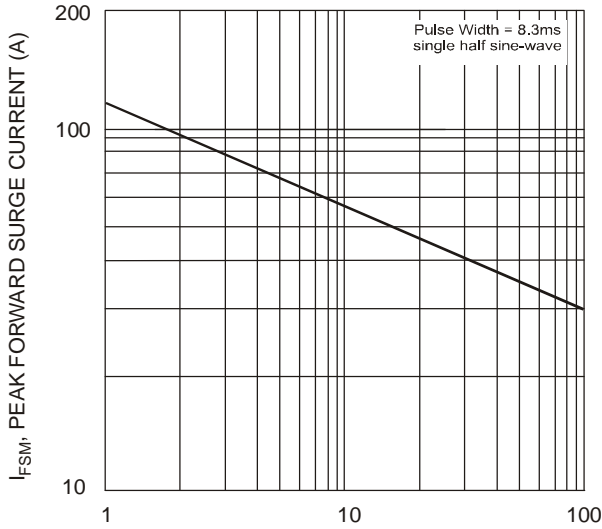
- Notes:
1. EU Directive 2002/95/EC (RoHS) & 2011/65/EU (RoHS 2) compliant. All applicable RoHS exemptions applied.
 2. See <http://www.diodes.com> for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
 3. For packaging details, visit our website at <http://www.diodes.com>.
 4. Valid provided that leads are maintained at ambient temperature at a distance of 9.5mm from the case.
 5. Measured with I_F = 0.5A, I_R = 1.0A, I_{rr} = 0.25A. See figure 5.
 6. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.



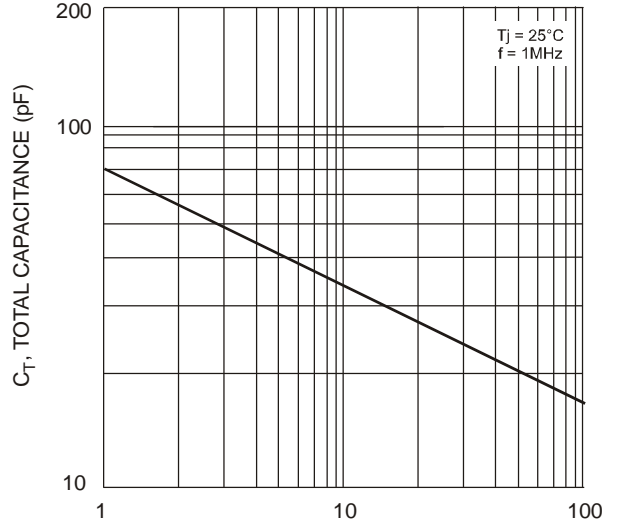
T_A , AMBIENT TEMPERATURE (°C)
Fig. 1 Forward Current Derating Curve



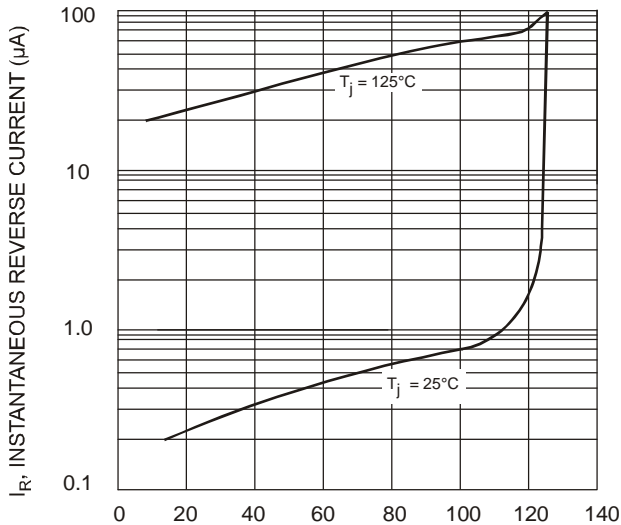
V_F , INSTANTANEOUS FORWARD VOLTAGE (V)
Fig. 2 Typical Forward Characteristics



NUMBER OF CYCLES AT 60 Hz
Fig. 3 Peak Forward Surge Current

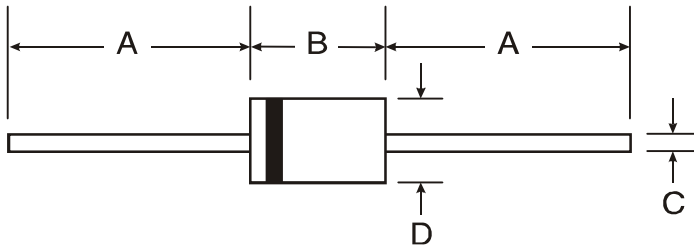


V_R , REVERSE VOLTAGE (V)
Fig. 4 Typical Total Capacitance



PERCENT OF RATED PEAK VOLTAGE (%)
Fig. 5 Typical Reverse Characteristics

Package Outline Dimensions



DO-201AD		
Dim	Min	Max
A	25.40	—
B	7.20	9.50
C	1.20	1.30
D	4.80	5.30
All Dimensions in mm		

IMPORTANT NOTICE

DIODES INCORPORATED MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, WITH REGARDS TO THIS DOCUMENT, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE (AND THEIR EQUIVALENTS UNDER THE LAWS OF ANY JURISDICTION).

Diodes Incorporated and its subsidiaries reserve the right to make modifications, enhancements, improvements, corrections or other changes without further notice to this document and any product described herein. Diodes Incorporated does not assume any liability arising out of the application or use of this document or any product described herein; neither does Diodes Incorporated convey any license under its patent or trademark rights, nor the rights of others. Any Customer or user of this document or products described herein in such applications shall assume all risks of such use and will agree to hold Diodes Incorporated and all the companies whose products are represented on Diodes Incorporated website, harmless against all damages.

Diodes Incorporated does not warrant or accept any liability whatsoever in respect of any products purchased through unauthorized sales channel. Should Customers purchase or use Diodes Incorporated products for any unintended or unauthorized application, Customers shall indemnify and hold Diodes Incorporated and its representatives harmless against all claims, damages, expenses, and attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized application.

Products described herein may be covered by one or more United States, international or foreign patents pending. Product names and markings noted herein may also be covered by one or more United States, international or foreign trademarks.

LIFE SUPPORT

Diodes Incorporated products are specifically not authorized for use as critical components in life support devices or systems without the express written approval of the Chief Executive Officer of Diodes Incorporated. As used herein:

A. Life support devices or systems are devices or systems which:

1. are intended to implant into the body, or
2. support or sustain life and whose failure to perform when properly used in accordance with instructions for use provided in the labeling can be reasonably expected to result in significant injury to the user.

B. A critical component is any component in a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or to affect its safety or effectiveness.

Customers represent that they have all necessary expertise in the safety and regulatory ramifications of their life support devices or systems, and acknowledge and agree that they are solely responsible for all legal, regulatory and safety-related requirements concerning their products and any use of Diodes Incorporated products in such safety-critical, life support devices or systems, notwithstanding any devices- or systems-related information or support that may be provided by Diodes Incorporated. Further, Customers must fully indemnify Diodes Incorporated and its representatives against any damages arising out of the use of Diodes Incorporated products in such safety-critical, life support devices or systems.

Copyright © 2012, Diodes Incorporated

www.diodes.com

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

 [View 1N5407G-T on WIN SOURCE](#)

 [Diodes Incorporated Information](#)

Optimize Your Supply Chain with WIN SOURCE Solutions

-  Global Sourcing Solution
-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management