

# 1N5400 - 1N5408

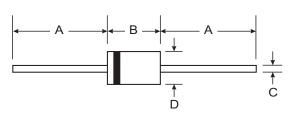
### **3.0A RECTIFIER**

### Features

- Diffused Junction
- High Current Capability and Low Forward Voltage Drop
- Surge Overload Rating to 200A Peak
- Low Reverse Leakage Current
- Lead Free Finish, RoHS Compliant (Note 3)

### **Mechanical Data**

- Case: DO-201AD
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020C
- Terminals: Finish Tin. Plated Leads Solderable per MIL-STD-202, Method 208 (3)
- Polarity: Cathode Band
- Marking: Type Number
- Weight: 1.1 grams (approximate)



DO-201AD					
Dim	Min	Max			
Α	25.40	—			
В	7.20	9.50			
С	1.20	1.30			
D	4.80	5.30			
All Dimensions in mm					

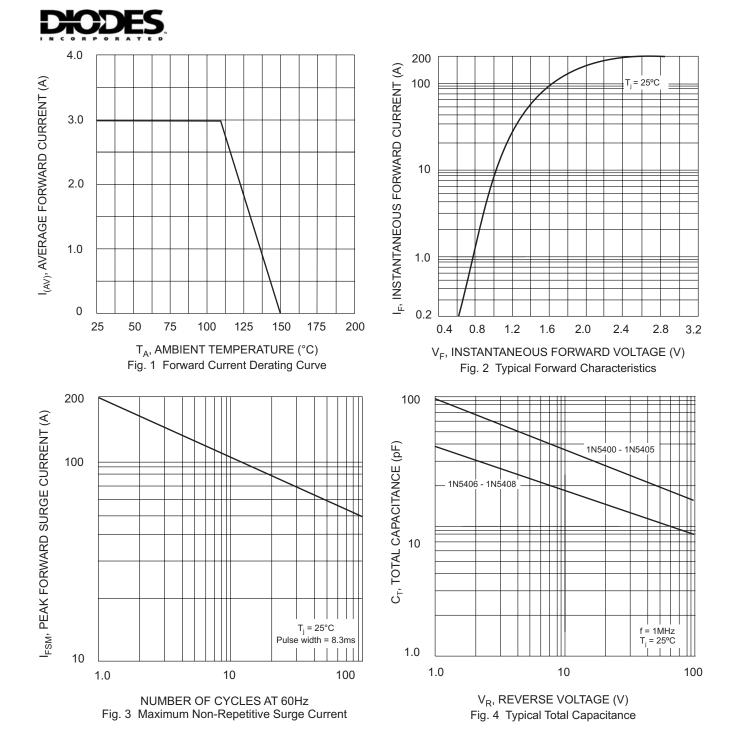
## Maximum Ratings and Electrical Characteristics @ T<sub>A</sub> = 25°C unless otherwise specified

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

Characteristic	Symbol	1N 5400	1N 5401	1N 5402	1N 5404	1N 5406	1N 5407	1N 5408	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	35	70	140	280	420	560	700	V
Average Rectified Output Current @ $T_A = 105^{\circ}C$ (Note 1)	Ι <sub>Ο</sub>	3.0				•	А		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load	I <sub>FSM</sub>				200				А
Forward Voltage @ I <sub>F</sub> = 3.0A	V <sub>FM</sub>	1.0				V			
Peak Reverse Current@ $T_A = 25^{\circ}C$ at Rated DC Blocking Voltage@ $T_A = 150^{\circ}C$		10 100			μA				
Typical Total Capacitance (Note 2)	CT	50 25			pF				
Typical Thermal Resistance Junction to Ambient		15					°C/W		
Operating and Storage Temperature Range		-65 to +150					°C		

Notes: 1. Valid provided that leads are kept at ambient temperature at a distance of 9.5mm from the case.

- 2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 3. RoHS revision 13.2.2003. Glass and High Temperature Solder Exemptions Applied, see EU Directive Annex Notes 5 and 7.



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### Ordering Information (Note 4)

Device	Packaging	Shipping		
1N5400-B	DO-201AD	500 Bulk		
1N5400-T	DO-201AD	1.2K/Tape & Reel, 13 inch		
1N5401-B	DO-201AD	500 Bulk		
1N5401-T	DO-201AD	1.2K/Tape & Reel, 13 inch		
1N5402-B	DO-201AD	500 Bulk		
1N5402-T	DO-201AD	1.2K/Tape & Reel, 13 inch		
1N5404-B	DO-201AD	500 Bulk		
1N5404-T	DO-201AD	1.2K/Tape & Reel, 13 inch		
1N5406-B	DO-201AD	500 Bulk		
1N5406-T	DO-201AD	1.2K/Tape & Reel, 13 inch		
1N5407-B	DO-201AD	500 Bulk		
1N5407-T	DO-201AD	1.2K/Tape & Reel, 13 inch		
1N5408-B	DO-201AD	500 Bulk		
1N5408-T	DO-201AD	1.2K/Tape & Reel, 13 inch		

Notes: 4. For Packaging Details, go to our website at http://www.diodes.com/datasheets/ap02008.pdf.

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