

1N5400 - 1N5408

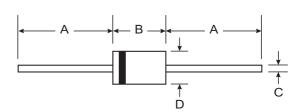
3.0A RECTIFIER

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_A = 25°C unless otherwise specified

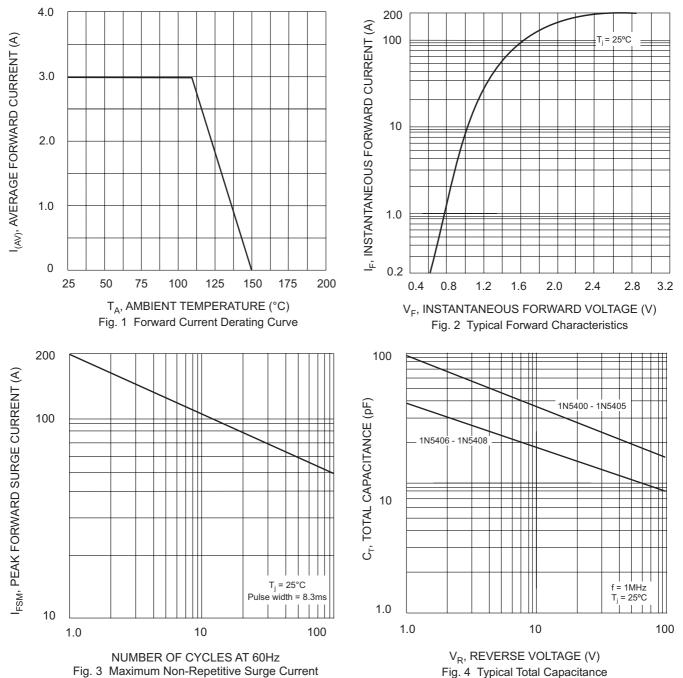
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

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 _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage		V _{R(RMS)}	35	70	140	280	420	560	700	V
Average Rectified Output Current	² T _A = 105°C (Note 1)	lo	3.0					А		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load		I _{FSM}	200					А		
Forward Voltage	@ $I_F = 3.0A$	V _{FM}	1.0			V				
	$P_{A} = 25^{\circ}C$ $P_{A} = 150^{\circ}C$	I _{RM}	10 100				μA			
Typical Total Capacitance	(Note 2)	Ст	C _T 50 25			pF				
Typical Thermal Resistance Junction to Ambient		R _{0JA}	15					°C/W		
Operating and Storage Temperature Range		T _j , T _{STG}	-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.







Ordering Information (Note 4)

Device Packaging Shipping					
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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