

<u>1N5400 - 1N5408</u>

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-
- Polarity: Cathode Band
- STD-202, Method 208 @3 Marking: Type Number Weight: 1.1 grams (approximate)

A —		B →	<u></u>	A — † C
	SMB			
	Dim	Min	Max	
	Α	25.4	-	
	В	7.20	9.50	
	С	1.20	1.30	
	D	4.80	5.30	•
	All Din	nensions		

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

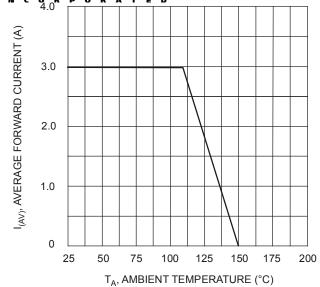
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

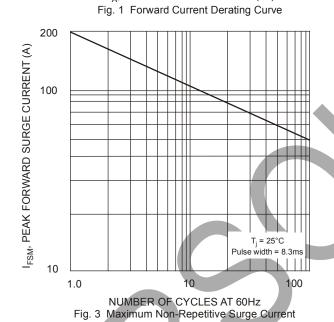
Characteristic		Symbol	1N 5400	1N 5401	1N 5402	1N 5404	1N 5406	1N 5407	1N 5408	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		$egin{array}{c} V_{RRM} \ V_{RWM} \ V_{R} \end{array}$	50	100	200	400	600	800	1000	V
RMS Reverse Voltage		V _{R(RMS)}	35	70	140	280	420	560	700	V
Average Rectified Output Current	@ T _A = 105°C (Note 1)	lo	3.0				Α			
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load		I _{FSM}	200					Α		
Forward Voltage	$@I_F = 3.0A$	V_{FM}	V _{FM} 1.0			V				
Peak Reverse Current at Rated DC Blocking Voltage	@ T _A = 25°C @ T _A = 150°C	I _{RM} 10 100			μΑ					
Typical Total Capacitance	(Note 2)	Ст	C _T 50 25			pF				
Typical Thermal Resistance Junction to Ambient		$R_{\theta JA}$	15					°C/W		
Operating and Storage Temperature Range		T _{j,} T _{STG}	-65 to +150					°C		

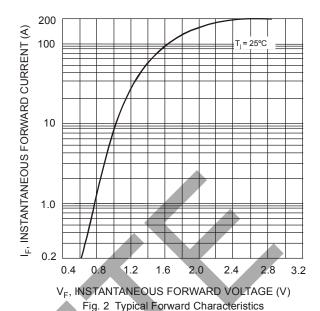
Notes:

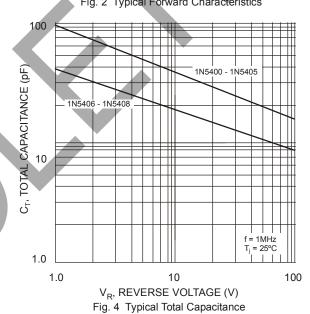
- Valid provided that leads are kept at ambient temperature at a distance of 9.5mm from the case.
 Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
 RoHS revision 13.2,2003. Glass and high temperature solder exemptions applied, see *EU Directive Annex Notes 5 and 7*.













Ordering Information (Note 4)

Device	Packaging	Shipping
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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