3.0A Rectifier

1N5400 thru 1N5408

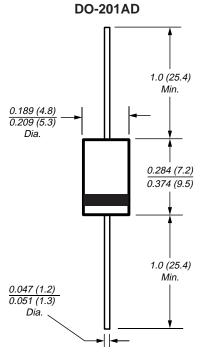
Reverse Voltage: 50 to 1000V Forward Current: 3.0A

Features

- Diffused Junction
- High Current Capability and Low Forward Voltage Drop
- Surge Overload Rating to 200A Peak
- Low Reverse Leakage Current
- Plastic Material: UL Flammability Classification Rating 94V-0

Mechanical Data

- Case: DO-201AD, Molded Plastic
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 1.1 grams (approx.)



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Dimensions in inches and (millimeters)

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 @ $T_A = 105^{\circ}C$ (Note 1)	Ι _Ο	3.0							А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	200					А		
Forward Voltage @ I _F = 3.0A	V _{FM}	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 Junction Capacitance (Note 2)	Cj	50 25						pF	
Typical Thermal Resistance Junction to Ambient	R _{0JA}	15				K/W			
Operating and Storage Temperature Range	Tj, TSTG	-65 to +150						°C	

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

2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

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Ratings and Characteristic Curves (TA = 25°C unless otherwise noted)

