

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

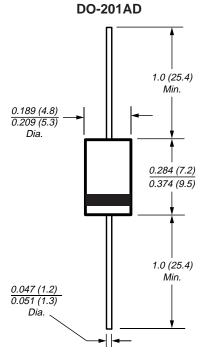
Mechanical Data

- Case: DO-201AD, Molded Plastic
- Terminals: Solderable per MIL-STD-202,

Method 208

- Polarity: Cathode Band

- Weight: 1.1 grams (approx.)



Dimensions in inches and (millimeters)

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	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° (Note		3.0							Α
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 = 3.0	A V _{FM}	1.0						٧	
Peak Reverse Current @ T _A = 25° at Rated DC Blocking Voltage @ T _A = 150°		10 100						μА	
Typical Junction Capacitance (Note	2) C _j	50 25					pF		
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	15				K/W			
Operating and Storage Temperature Range	T _j , T _{STG}	-65 to +150						°C	

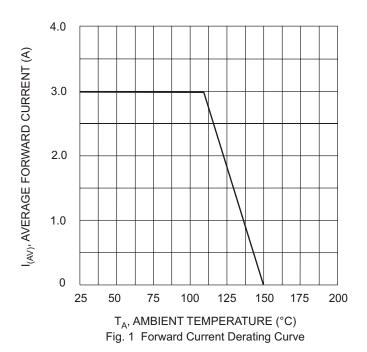
Notes: 2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

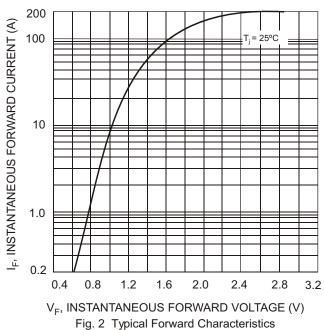
1. Valid provided that leads are kept at ambient temperature at a distance of 9.5mm from the case.

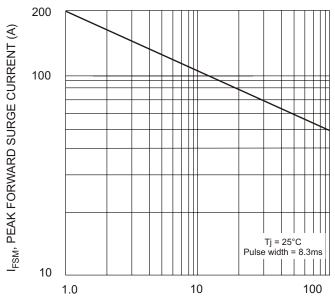
MDS0312006A Page 1

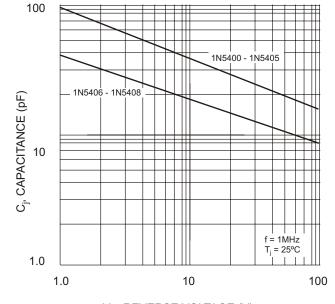


Ratings and Characteristic Curves (TA = 25°C unless otherwise noted)









NUMBER OF CYCLES AT 60Hz Fig. 3 Maximum Non-Repetitive Surge Current

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

MDS0312006A Page 2