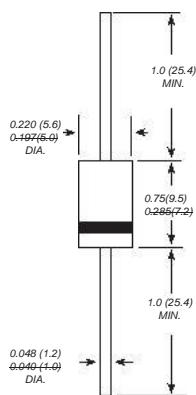


# 1N5400 THRU 1N5408

## GENERAL PURPOSE SILICON RECTIFIER

**Reverse Voltage - 50 to 1000 Volts    Forward Current - 3.0 Amperes**

**DO-201AD**


Dimensions in inches and (millimeters)

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**FEATURES**

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ Construction utilizes void-free molded plastic technique
- ◆ Low reverse leakage
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed: 250°C/10 seconds, 0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

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**MECHANICAL DATA**

Case: JEDEC DO-201AD molded plastic body  
Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026  
Polarity: Color band denotes cathode end  
Mounting Position: Any  
Weight: 0.04 ounce, 1.10 grams

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified.

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

	<b>SYMBOLS</b>	1N 5400	1N 5401	1N 5402	1N 5403	1N 5404	1N 5405	1N 5406	1N 5407	1N 5408	UNITS
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	300	400	500	600	800	1000	VOLTS
Maximum RMS voltage	$V_{RMS}$	35	70	140	210	280	350	420	560	700	VOLTS
Maximum DC blocking voltage	$V_{DC}$	50	100	200	300	400	500	600	800	1000	VOLTS
Maximum average forward rectified current 0.375"(9.5mm) lead length at $T_A=75\text{ }^\circ\text{C}$	$I_{(AV)}$	3.0								Amps	
Peak forward surge current	$I_{FSM}$	100								Amps	
8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	100								Amps	
Maximum instantaneous forward voltage at 3.0A	$V_F$	1.2								Volts	
Maximum DC reverse current $T_A=25\text{ }^\circ\text{C}$ at rated DC blocking voltage $T_A=100\text{ }^\circ\text{C}$	$I_R$	10.0 250.0								uA	
Typical junction capacitance (NOTE 1)	$C_J$	30.0								pF	
Typical thermal resistance (NOTE 2)	$R_{QJA}$	20.0								$^\circ\text{C/W}$	
Operating junction and storage temperature range	$T_J, T_{STG}$	-65 to +175								$^\circ\text{C}$	

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Thermal resistance from junction to ambient at 0.375"(9.5mm) lead length, P.C.B. mounted

# RATINGS AND CHARACTERISTIC CURVES 1N5400 THRU 1N5408

