



# 1N5400 Thru 1N5408

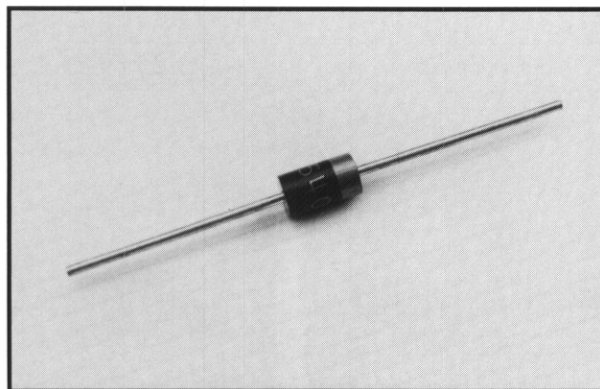
## 3 AMP PLASTIC SILICON RECTIFIER

### FEATURES

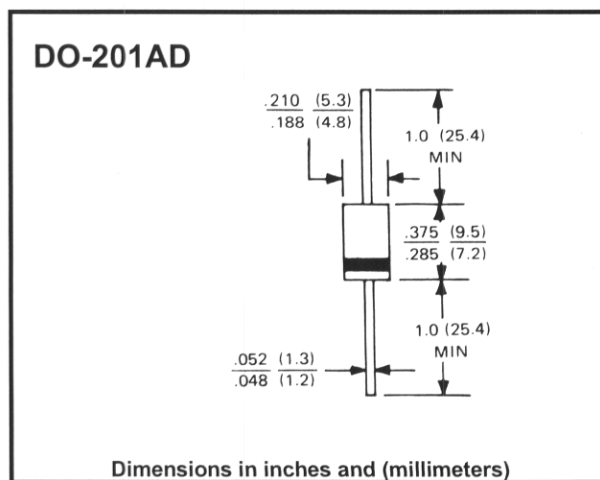
- Rating to 1000V PRV
- Low cost
- Diffused junction
- Low leakage
- Low forward voltage drop
- High current capability
- Easily cleaned with freon, alcohol, chloroethene and similar solvents
- UL recognized 94V-O plastic material

### Mechanical Data

- Case: JEDEC DO-201AD
- Terminals: Axial leads, solderable per MIL-STD-202, Method 208
- Polarity: Color band denotes cathode
- Weight: 0.04 ounce, 1.1 grams
- Mounting Position: Any



### Outline Drawing



### Maximum Ratings & Characteristics

- Ratings at 25° C ambient temperature unless otherwise specified
- Single phase, half wave, 60Hz, resistive or inductive load
- For capacitive load, derate current by 20%

		1N5400	1N5401	1N5402	1N5403	1N5404	1N5405	1N5406	1N5407	1N5408	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	300	400	500	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	210	280	350	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	300	400	500	600	800	1000	V
Maximum Average Forward Rectified Current, .500" (12.7mm) Lead Length @ $T_L = 90^\circ\text{C}$	$I_{(AV)}$	3.0									A
Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave Superimposed On Rated Load	$I_{FSM}$	200									A
Maximum Forward Voltage At 3.0A DC	$V_F$	1.0									V
Maximum DC Reverse Current @ $T_A = 25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_A = 150^\circ\text{C}$	$I_R$	10 100									$\mu\text{A}$
Typical Junction Capacitance (Note 1)	$C_J$	50						25			pF
Typical Thermal Resistance (Note 2)	$R_{thJA}$	15									$^\circ\text{C}/\text{W}$
Operating Temperature Range	$T_J$	-65 to +175									$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-65 to +175									$^\circ\text{C}$

Notes: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC  
2. Thermal resistance Junction to Ambient