

## **3 AMP PLASTIC SILICON RECTIFIER**

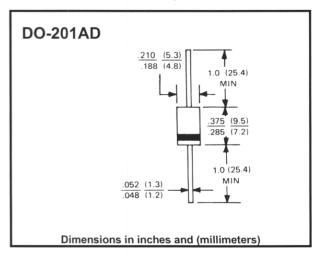
### **FEATURES**

- Rating to 1000V PRV
- Low cost
- Diffused junction
- Low leakage
- Low forward voltage drop
- High current capability
- Easily cleaned with freon, alcohol, chlorothene 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	VRRM	50	100	200	300	400	500	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	210	280	350	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	300	400	500	600	800	1000	V
Maximum Average Forward @ T <sub>L</sub> = 90°C Rectified Current, .500" (12.7mm) Lead Length	l (AV)					3.0					А
Peak Forward Surge Current											
8.3 ms Single Half-Sine-Wave	IFSM   200								A		
Superimposed On Rated Load											
Maximum Forward Voltage At 3.0A DC	VF	1.0							V		
Maximum DC Reverse Current @ T <sub>A</sub> = 25°C	IR 10									μА	
At Rated DC Blocking Voltage @ T <sub>A</sub> = 150°C	I IR	100									μΛ
Typical Junction Capacitance (Note 1)	CJ			5	0				25		pF
Typical Thermal Resistance (Note 2)	RthJA					15					°C/W
Operating Temperature Range	TJ	-65 to +175								°C	
Storage Temperature Range	Tstg	-65 to +175							°C		

Notes:

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