



3.0A RECTIFIER

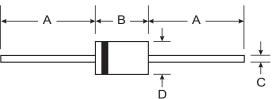
## **Features**

- **Diffused Junction**
- High Current Capability and Low Forward Voltage Drop
- Surge Overload Rating to 200A Peak
- Low Reverse Leakage Current

## Lead Free Finish, RoHS Compliant (Note 3) **Mechanical Data**

Case: DO-201AD

- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020C
- Terminals: Finish Tin. Plated Leads Solderable per MIL-STD-202, Method 208 **@3**
- Polarity: Cathode Band Marking: Type Number
- Weight: 1.1 grams (approximate)



DO-201AD								
Dim	Min	Max						
Α	25.40							
В	7.20	9.50						
С	1.20	1.30						
D	4.80	5.30						
All Dimensions in mm								

## **Maximum Ratings and Electrical Characteristics** @ T<sub>A</sub> = 25°C unless otherwise specified

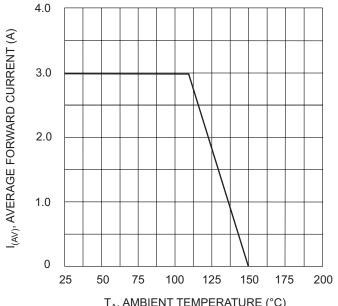
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

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 <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	35	70	140	280	420	560	700	V
Average Rectified Output Current @ T <sub>A</sub> = 105°C (Note 1)		3.0						Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load		200						Α	
Forward Voltage @ I <sub>F</sub> = 3.0A	V <sub>FM</sub>	1.0						V	
Peak Reverse Current @ T <sub>A</sub> = 25°C at Rated DC Blocking Voltage @ T <sub>A</sub> = 150°C		10 100					μА		
Typical Total Capacitance (Note 2)	C <sub>T</sub>	50 25				pF			
Typical Thermal Resistance Junction to Ambient		15						°C/W	
Operating and Storage Temperature Range		-65 to +150						°C	

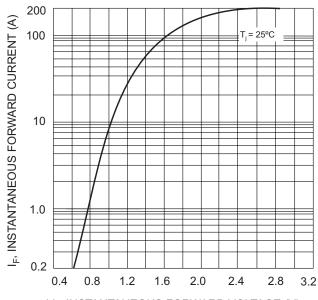
Notes:

- 1. Valid provided that leads are kept at ambient temperature at a distance of 9.5mm from the case.
- 2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 3. RoHS revision 13.2.2003. Glass and High Temperature Solder Exemptions Applied, see EU Directive Annex Notes 5 and 7.

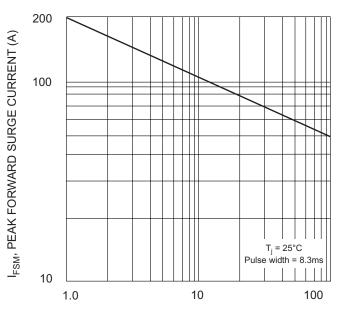




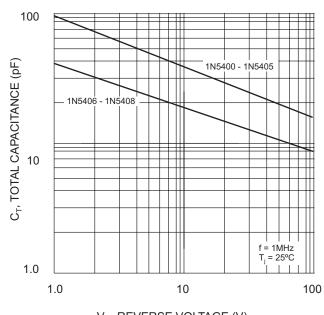




V<sub>F</sub>, INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 2 Typical Forward Characteristics



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



V<sub>R</sub>, REVERSE VOLTAGE (V) Fig. 4 Typical Total Capacitance

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