

1N5400 - 1N5408

3.0A SILICON RECTIFIER

Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability

Mechanical Data

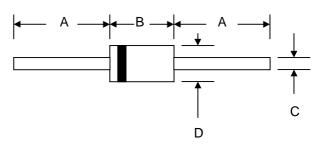
Case: Molded Plastic

 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: Cathode BandWeight: 1.2 grams (approx.)Mounting Position: Any

Marking: Type Number

Epoxy: UL 94V-O rate flame retardant



| DO-201AD | | | | | |
|----------------------|------|------|--|--|--|
| Dim | Min | Max | | | |
| Α | 25.4 | _ | | | |
| В | 8.50 | 9.50 | | | |
| С | 1.20 | 1.30 | | | |
| D | 5.0 | 5.60 | | | |
| All Dimensions in mm | | | | | |

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

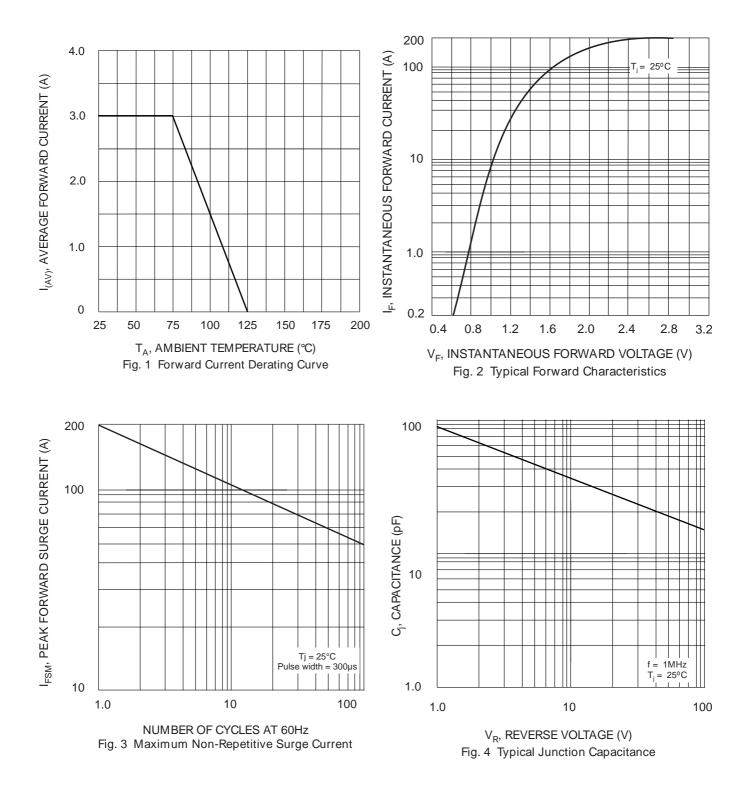
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

| 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 | VRRM VRWM VR | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| RMS Reverse Voltage | VR(RMS) | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Average Rectified Output Current (Note 1) @T _A = 75°C | lo | | | | 3.0 | | | | Α |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | IFSM | 200 | | | А | | | | |
| Forward Voltage @I _F = 3.0A | VFM | 1.0 | | | V | | | | |
| Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$ | lгм | 5.0 100 | | | μΑ | | | | |
| Typical Junction Capacitance (Note 2) | Cj | | | | 50 | | | | pF |
| Typical Thermal Resistance Junction to Ambient (Note 1) | $R_{	heta}JA$ | | | | 18 | | | | K/W |
| Operating Temperature Range | Tj | -65 to +125 | | | °C | | | | |
| Storage Temperature Range | Тѕтс | -65 to +150 | | | °C | | | | |

*Glass passivated forms are available upon request

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

2. Measured at 1.0 MHz and Applied Reverse Voltage of 4.0V D.C.



ORDERING INFORMATION

| Product No.◆ | Package Type | Shipping Quantity | | | |
|--------------|--------------|-------------------|--|--|--|
| 1N5400-T3 | DO-201AD | 1200/Tape & Reel | | | |
| 1N5400-TB | DO-201AD | 1200/Tape & Box | | | |
| 1N5400 | DO-201AD | 500 Units/Box | | | |
| 1N5401-T3 | DO-201AD | 1200/Tape & Reel | | | |
| 1N5401-TB | DO-201AD | 1200/Tape & Box | | | |
| 1N5401 | DO-201AD | 500 Units/Box | | | |
| 1N5402-T3 | DO-201AD | 1200/Tape & Reel | | | |
| 1N5402-TB | DO-201AD | 1200/Tape & Box | | | |
| 1N5402 | DO-201AD | 500 Units/Box | | | |
| 1N5404-T3 | DO-201AD | 1200/Tape & Reel | | | |
| 1N5404-TB | DO-201AD | 1200/Tape & Box | | | |
| 1N5404 | DO-201AD | 500 Units/Box | | | |
| 1N5406-T3 | DO-201AD | 1200/Tape & Reel | | | |
| 1N5406-TB | DO-201AD | 1200/Tape & Box | | | |
| 1N5406 | DO-201AD | 500 Units/Box | | | |
| 1N5407-T3 | DO-201AD | 1200/Tape & Reel | | | |
| 1N5407-TB | DO-201AD | 1200/Tape & Box | | | |
| 1N5407 | DO-201AD | 500 Units/Box | | | |
| 1N5408-T3 | DO-201AD | 1200/Tape & Reel | | | |
| 1N5408-TB | DO-201AD | 1200/Tape & Box | | | |
| 1N5408 | DO-201AD | 500 Units/Box | | | |

Products listed in **bold** are WTE **Preferred** devices.

T3 suffix refers to a 13" reel. TB suffix refers to Ammo Pack.

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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