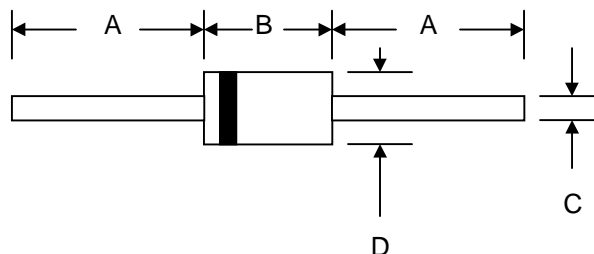


Features

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

Mechanical Data

- Case: DO-201AD, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 1.2 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- **Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4**



| DO-201AD | | |
|----------------------|------|------|
| Dim | Min | Max |
| A | 25.4 | — |
| B | 7.20 | 9.50 |
| C | 1.20 | 1.30 |
| D | 4.80 | 5.30 |
| 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 | V _{RRM} V _{RWM} V _R | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| RMS Reverse Voltage | V _{R(RMS)} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Average Rectified Output Current (Note 1) @T _A = 75°C | I _O | 3.0 | | | | | | | A |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | I _{FSM} | 200 | | | | | | | A |
| Forward Voltage @I _F = 3.0A | V _{FM} | 1.0 | | | | | | | V |
| Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C | I _{RM} | 5.0 100 | | | | | | | μA |
| Typical Junction Capacitance (Note 2) | C _j | 50 | | | | | | | pF |
| Typical Thermal Resistance Junction to Ambient (Note 1) | R _{θJA} | 20 | | | | | | | °C/W |
| Operating Temperature Range | T _j | -65 to +125 | | | | | | | °C |
| Storage Temperature Range | T _{STG} | -65 to +150 | | | | | | | °C |

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.

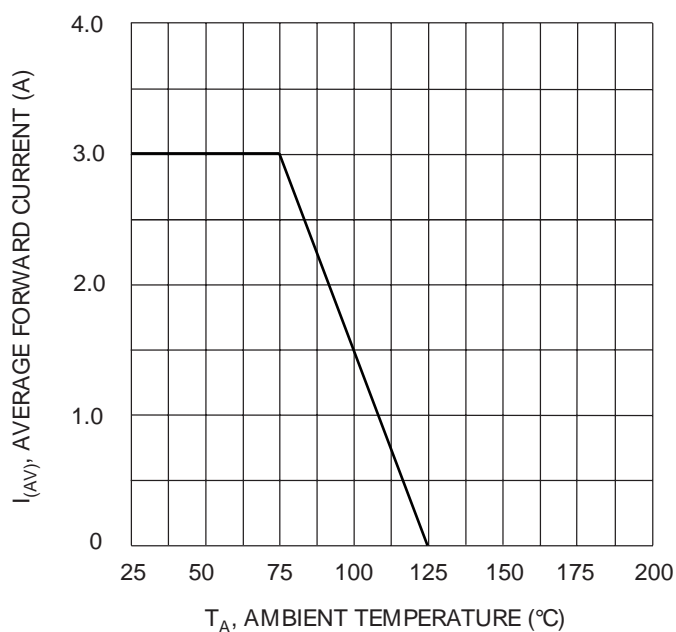


Fig. 1 Forward Current Derating Curve

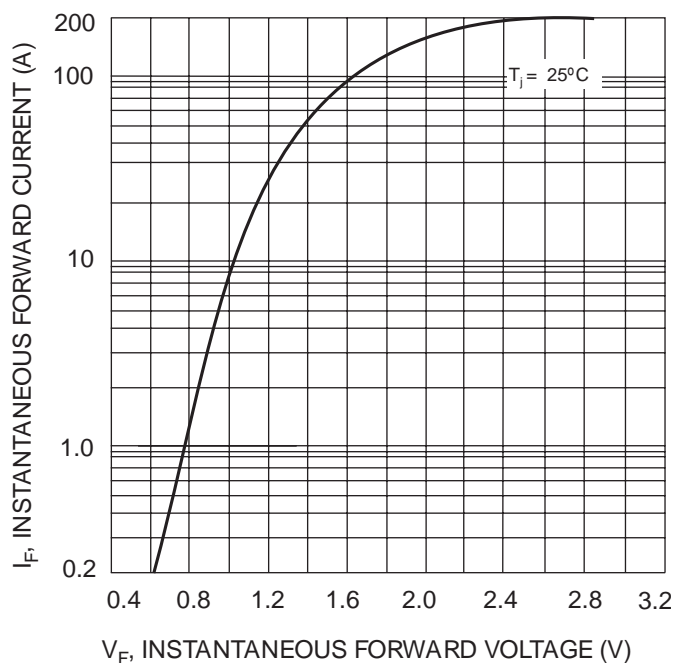


Fig. 2 Typical Forward Characteristics

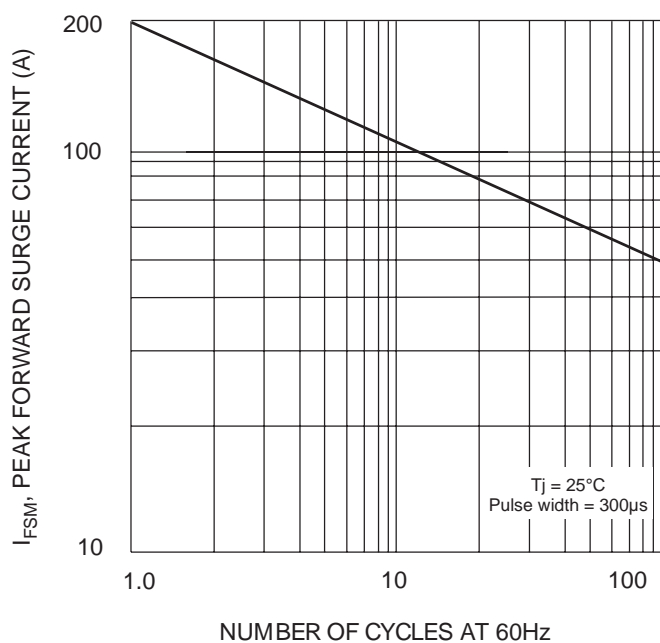


Fig. 3 Maximum Non-Repetitive Surge Current

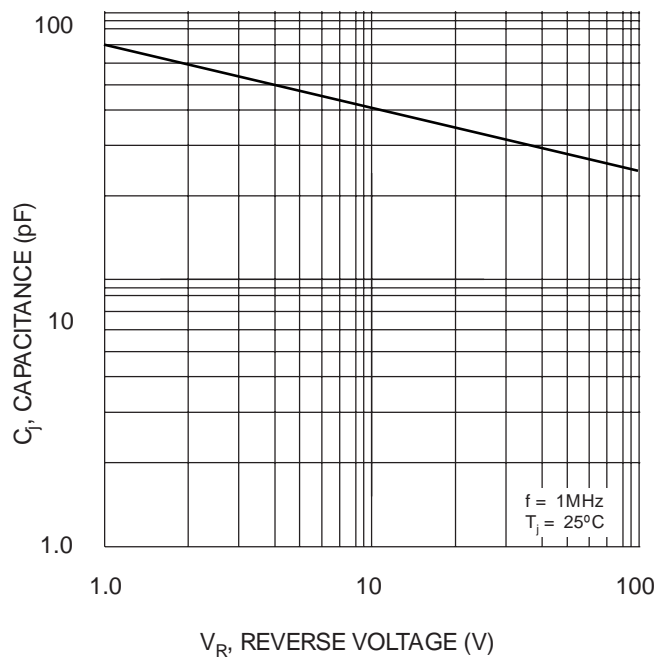
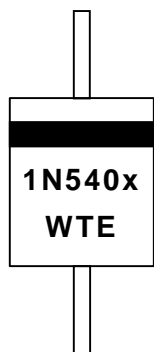


Fig. 4 Typical Junction Capacitance

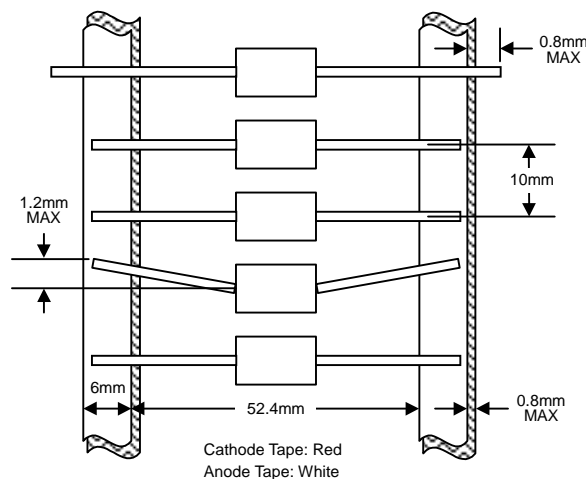
MARKING INFORMATION



Cathode
 1N540x
 x
 WTE

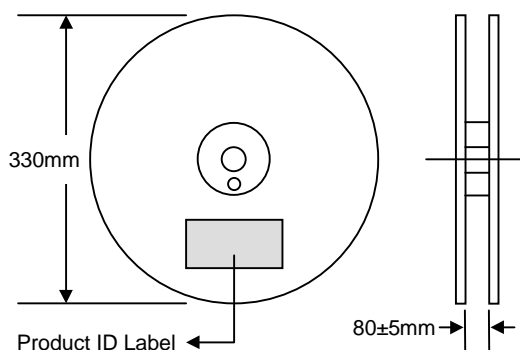
= Polarity Band
 = Device Number
 = 0, 1, 2, 4, 6, 7 or 8
 = Manufacturer's Logo

TAPING SPECIFICATIONS

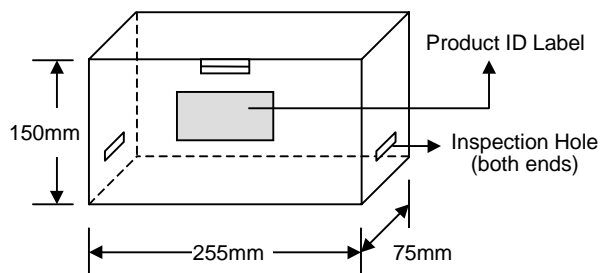


PACKAGING INFORMATION

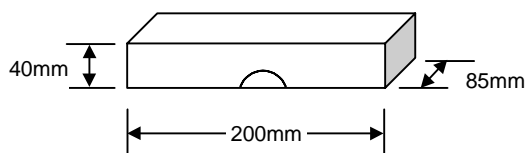
TAPE & REEL



TAPE & BOX



BULK



| Packaging | Reel Diameter / Box Size (mm) | Quantity (PCS) | Carton Size (mm) | Quantity (PCS) | Approx. Gross Weight (KG) |
|------------------------|-------------------------------|----------------|------------------|----------------|---------------------------|
| TAPE & REEL | 330 | 1,200 | 370 x 370 x 420 | 6,000 | 10.0 |
| TAPE & BOX | 255 x 75 x 150 | 1,200 | 400 x 273 x 415 | 12,000 | 17.0 |
| BULK | 200 x 85 x 40 | 500 | 459 x 214 x 256 | 12,500 | 16.0 |

Note: 1. Paper reel, white or gray color. Core material: plastic or metal.
 2. Components are packed in accordance with EIA standard RS-296-E.

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 |

1. Products listed in **bold** are WTE **Preferred** devices.
2. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
3. **To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, 1N5400-TB-LF.**

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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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We power your everyday.