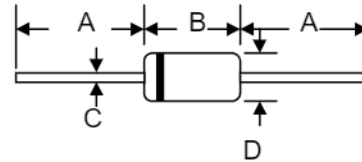


Features

- Fast Switching Speed
- Glass Package Version for High Reliability
- High Conductance
- Available in Both Through-Hole and Surface Mount Versions



Mechanical Data

- Case: DO-35, Molded Glass
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.13 grams
- Marking: Type Number
- **Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4**

| DO-35 | | |
|----------------------|-------|------|
| Dim | Min | Max |
| A | 25.40 | — |
| B | — | 4.00 |
| C | — | 0.60 |
| D | — | 2.00 |
| All Dimensions in mm | | |

Maximum Ratings @T_A=25°C unless otherwise specified

| Characteristic | Symbol | Value | Unit |
|---|--|-------------|-------------|
| Non-Repetitive Peak Reverse Voltage | V _{RM} | 100 | V |
| Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | V _{RRM} V _{RWM} V _R | 75 | V |
| RMS Reverse Voltage | V _{R(RMS)} | 53 | V |
| Forward Continuous Current (Note 1) | I _{FM} | 300 | mA |
| Rectified Current (Average), Half Wave Rectification with Resistive Load and f ≥ 50MHz (Note 1) | I _O | 150 | mA |
| Non-Repetitive Peak Forward Surge Current @ t = 1.0s @ t = 1.0μs | I _{FSM} | 1.0 2.0 | A |
| Power Dissipation (Note 1) Derate Above 25°C | P _d | 500 1.68 | mW mW/°C |
| Thermal Resistance, Junction to Ambient Air (Note 1) | R _{θJA} | 300 | K/W |
| Operating and Storage Temperature Range | T _j , T _{STG} | -65 to +175 | °C |

Note: 1. Diode on Ceramic Substrate 10mm x 8mm x 0.7mm.

Electrical Characteristics @ $T_A=25^{\circ}\text{C}$ unless otherwise specified

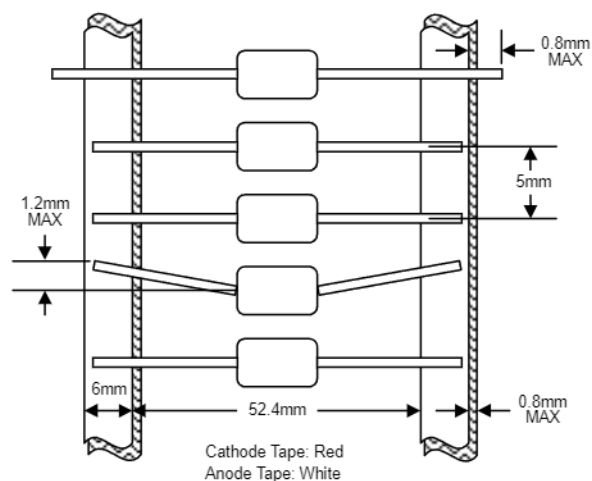
| Characteristic | Symbol | Min | Max | Unit | Test Condition |
|------------------------------|-----------------|-----|-----------------------|---|--|
| Maximum Forward Voltage | V _{FM} | — | 1.0 | V | I _F = 10mA |
| Maximum Peak Reverse Current | I _{RM} | — | 5.0 50 30 25 | μA μA μA nA | V _R = 75V V _R = 70V, T _j = 150°C V _R = 20V, T _j = 150°C V _R = 20V |
| Capacitance | C _j | — | 4.0 | pF | V _R = 0, f = 1.0MHz |
| Reverse Recovery Time | t _{rr} | — | 4.0 | ns | I _F = 10mA to I _R = 1.0mA V _R = 6.0V, R _L = 100 Ω |

MARKING INFORMATION



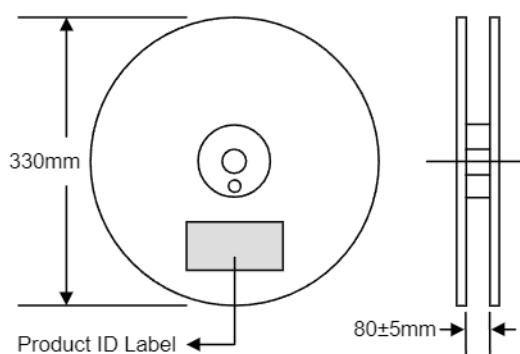
Cathode
1N4148 = Polarity Band
= Device Number

TAPING SPECIFICATIONS

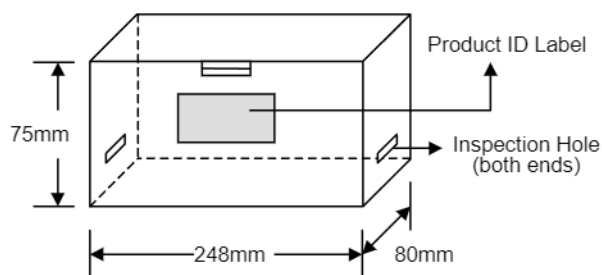


PACKAGING INFORMATION

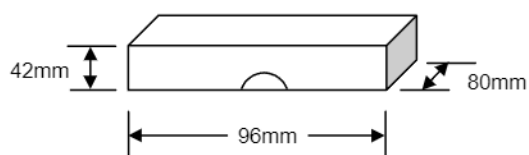
TAPE & REEL



TAPE & BOX



BULK



| Packaging | Reel Diameter / Box Size (mm) | Quantity (PCS) | Carton Size (mm) | Quantity (PCS) | Approx. Gross Weight (KG) |
|-------------|-------------------------------|----------------|------------------|----------------|---------------------------|
| TAPE & REEL | 330 | 5,000 | 370 x 370 x 420 | 25,000 | 8.5 |
| TAPE & BOX | 248 x 80 x 75 | 5,000 | 410 x 335 x 265 | 100,000 | 15.7 |
| BULK | 96 x 80 x 42 | 2,000 | 410 x 335 x 265 | 120,000 | 13.8 |

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 |
|------------------|--------------|-------------------|
| 1N4148-T3 | DO-35 | 5000/Tape & Reel |
| 1N4148-TB | DO-35 | 5000/Tape & Box |
| 1N4148 | DO-35 | 2000 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, 1N4148-TB-LF.**

Won-Top Electronics Co., Ltd (WTE) has checked all information carefully and believes it to be correct and accurate. However, WTE cannot assume any responsibility for inaccuracies. Furthermore, this information does not give the purchaser of semiconductor devices any license under patent rights to manufacturer. WTE reserves the right to change any or all information herein without further notice.

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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