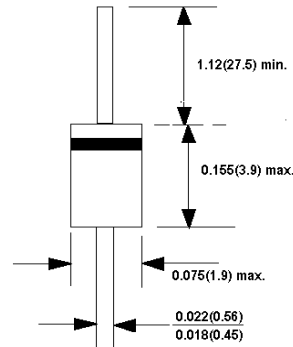
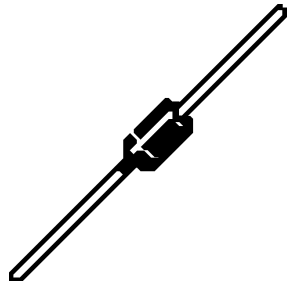


**Description**

**Mechanical Dimensions**

1N4148/1N4448



DO-35 (Glass)

Dimensions in inches(mm)

**Features**

- Silicon Epitaxial Planar Diode
- 500mW Power Dissipation
- Pb Free product are Available
- Bulk--2K, 13" T/R--10K, T/B--5K Ammo Box

**Mechanical Data**

- Case: DO-35 Glass
- Terminals: Solderable per MIL-STD-202E Method 208
- Polarity: Cathode Band
- Weight: 0.13grams

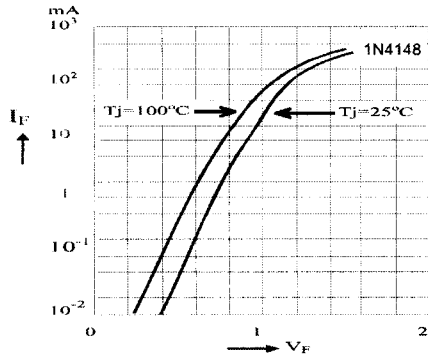
Max Ratings at Tj=25C Unless Otherwise Specified

| Characteristic   | Syb    | 1N4148/1N4448 | Unit |
|--|--------|---------------|------|
| Reverse Voltage  | Vr     | 75            | V    |
| Peak Reverse Voltage   | VRM    | 100           | V    |
| Average Rectified Current  | IF(AV) | 150           | mA   |
| Surge Forward Current at t<1s  | IFSM   | 500           | mA   |
| Power Dissipation Derate above at 25C  | Pd     | 500           | mW   |
| Storage Temp. Range  | Ts     | -55 ~ +200    | C    |
| Junction Temp. Range   | Tj     | 200           | C    |
| Max Forward Voltage @ If=10mA ---1N4148<br>If=100mA--1N4448                                  | VF     | 1.0 max       | V    |
| Reverse Voltage Leakage Current Vr=20V<br>Vr=75V<br>Vr=25V at Tj=150C                        | Ir     | 25<br>5<br>50 | uA   |
| Reverse Breakdown Voltage tested with 100uA  | Vbr    | 100 min.      | V    |
| Voltage rise when switching on tseted with 50mA pulses tp=0.1us, rise time<30ns, fp=5~100kHz | Vfr    | 2.5 max.      | V    |
| Reverse Recovery Time  | trr    | 4 max.        | nS   |
| Capacitance at VF=VR=0   | Ctot   | 4             | pF   |
| Max Thermal Resistance Junction to Ambient Air   | Rthja  | 350           | k/W  |

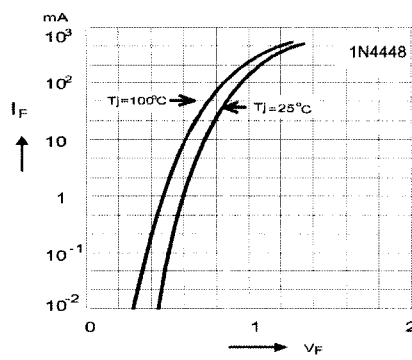
\* lead left at ambient temp. at 8mm length

**Typical Characteristics** ( $T_{amb} = 25^\circ\text{C}$  unless otherwise specified)

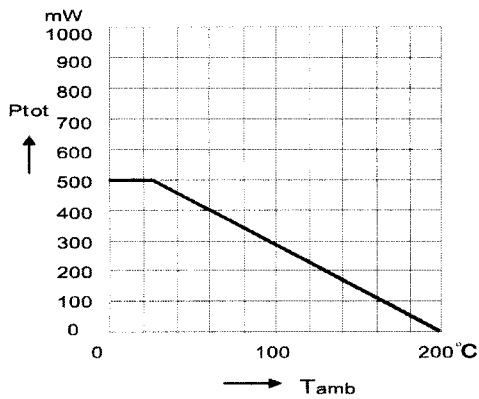
**Figure 1. Forward Characteristics**



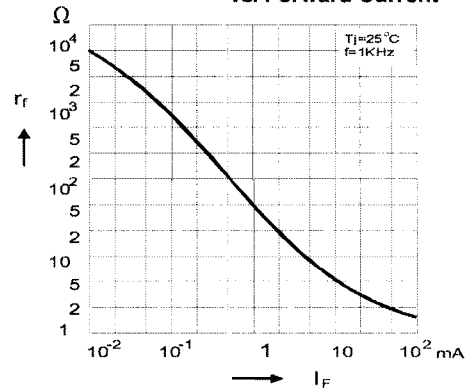
**Figure 2. Forward Characteristics**



**Figure 3. Admissible Power Dissipation vs. Ambient Temperature**



**Figure 4. Dynamic Forward Resistance vs. Forward Current**



**Figure 5. Relative Capacitance vs. Reverse Voltage**

