



# RECTRON SEMICONDUCTOR TECHNICAL SPECIFICATION

## 1N4454

### 1N4454 SIGNAL DIODE

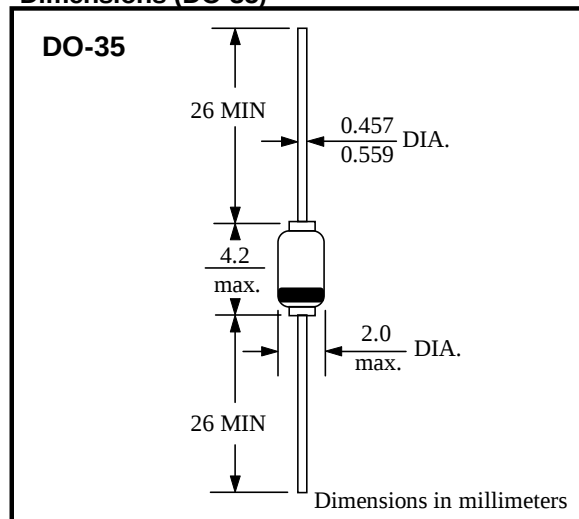
#### Absolute Maximum Ratings (Ta=25°C)

| Items                                 | Symbol | Ratings    | Unit |
|---------------------------------------|--------|------------|------|
| Reverse Voltage                       | VR     | 75         | V    |
| Reverse Recovery Time                 | trr    | 4          | ns   |
| Power Dissipation<br>3.33mW/°C (25°C) | P      | 400        | mW   |
| Forward Current                       | IF     | 225        | mA   |
| Junction Temp.                        | Tj     | -65 to 175 | °C   |
| Storage Temp.                         | Tstg   | -65 to 175 | °C   |

#### Mechanical Data

| Items       | Materials                  |
|-------------|----------------------------|
| Package     | DO-35                      |
| Case        | Hermetically sealed glass  |
| Lead/Finish | Double stud/Solder Plating |
| Chip        | Glass Passivated           |

#### Dimensions (DO-35)



#### Electrical Characteristics (Ta=25°C)

| Ratings                                                               | Symbol  | Ratings       | Unit |
|-----------------------------------------------------------------------|---------|---------------|------|
| Minimum Breakdown Voltage<br>IR= 5.0uA<br>IR= 100uA                   | BV      | 75<br>100     | V    |
| Peak Forward Surge Current PW= 1sec.                                  | IFsurge | 0.5           | A    |
| Maximum Forward Voltage<br>IF= 10mA                                   | VF      | 1.0           | V    |
| Maximum Reverse Current<br>VR= 50V<br>VR= 50V, Tj= 150°C              | IR      | 0.10<br>100.0 | uA   |
| Maximum Junction Capacitance<br>VR= 0, f= 1 MHz                       | Cj      | 4             | pF   |
| Maximum Reverse Recovery Time<br>IF= 10mA, VR= 6V, IRR= 1mA, RL= 100Ω | trr     | 4             | ns   |

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