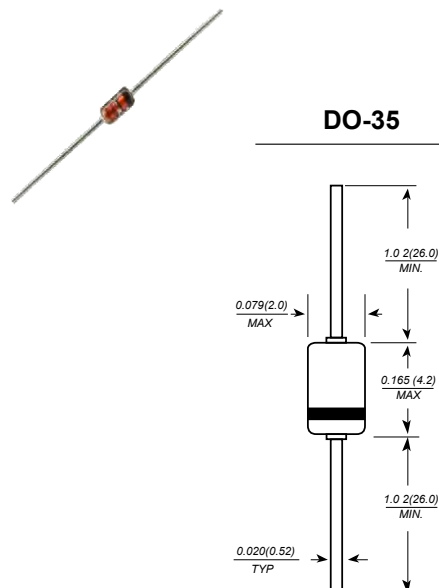


### Features

- Fast Switching
- High Reliability
- High Conductance

### Mechanical Data

- Case: DO-35, glass case
- Polarity: Color band denotes cathode
- Weight: 0.004 ounces, 0.13 grams



### Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise specified

| Symbol      | Parameter                                                                                              | Value       | Units            |
|-------------|--------------------------------------------------------------------------------------------------------|-------------|------------------|
| $V_{RRM}$   | Maximum Repetitive Reverse Voltage                                                                     | 100         | V                |
| $I_{F(AV)}$ | Average Rectified Forward Current                                                                      | 200         | mA               |
| $I_{FSM}$   | Non-repetitive Peak Forward Surge Current<br>Pulse Width = 1.0 second<br>Pulse Width = 1.0 microsecond | 1.0<br>4.0  | A<br>A           |
| $T_{stg}$   | Storage Temperature Range                                                                              | -65 to +200 | $^\circ\text{C}$ |
| $T_J$       | Operating Junction Temperature                                                                         | 175         | $^\circ\text{C}$ |

### Thermal Characteristics

| Symbol          | Parameter                               | Value | Units                     |
|-----------------|-----------------------------------------|-------|---------------------------|
| $P_D$           | Power Dissipation                       | 500   | mW                        |
| $R_{\theta JA}$ | Thermal Resistance, Junction to Ambient | 300   | $^\circ\text{C}/\text{W}$ |

### Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

| Symbol   | Parameter             | Test Conditions                                                                     | Min | Max      | Units               |
|----------|-----------------------|-------------------------------------------------------------------------------------|-----|----------|---------------------|
| $V_R$    | Breakdown Voltage     | $I_R = 100 \mu\text{A}$                                                             | 100 |          | V                   |
| $V_F$    | Forward Voltage       | $I_F = 20 \text{ mA}$                                                               |     | 1.0      | V                   |
| $I_R$    | Reverse Current       | $V_R = 20 \text{ V}$<br>$V_R = 20 \text{ V}, T_A = 150^\circ\text{C}$               |     | 25<br>50 | nA<br>$\mu\text{A}$ |
| $C_T$    | Total Capacitance     | $V_R = 0, f = 1.0 \text{ MHz}$                                                      |     | 4        | pF                  |
| $t_{rr}$ | Reverse Recovery Time | $I_F = 10 \text{ mA}, V_R = 6 \text{ V},$<br>$R_L = 100 \Omega, I = 1.0 \text{ mA}$ |     | 4        | ns                  |