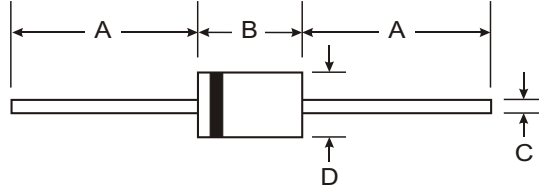


### Features

- Fast Switching
- High Reliability
- High Conductance
- Surface Mount Version Available (LL4151)



### Mechanical Data

- Case: DO-35, Plastic
- Leads: Solderable per MIL-STD-202, Method 208
- Marking: Type Number
- Polarity: Cathode Band
- Weight: 0.13 grams (approx.)

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

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

| Characteristic   | Symbol          | 1N4151      | Unit             |
|--|-----------------|-------------|------------------|
| Non-Repetitive Peak Reverse Voltage @ $5.0\mu\text{A}$                                     | $V_{RM}$        | 75          | V                |
| Peak Repetitive Reverse Voltage  | $V_{RRM}$       | 50          | V                |
| Working Peak Reverse Voltage   | $V_{RWM}$       |             |                  |
| DC Blocking Voltage  | $V_R$           |             |                  |
| RMS Reverse Voltage  | $V_{R(RMS)}$    | 35          | V                |
| Forward Continuous Current (Note 1)  | $I_{FM}$        | 300         | mA               |
| Average Rectified Output Current (Note 1)  | $I_O$           | 150         | mA               |
| Repetitive Peak Forward Current (Note 1)   | $I_{FRM}$       | 400         | mA               |
| Non-Repetitive Peak Forward Surge Current @ $t \leq 1.0\text{s}$<br>@ $t = 1.0\mu\text{s}$ | $I_{FSM}$       | 0.5<br>2.0  | A                |
| Power Dissipation (Note 1)   | $P_d$           | 500         | mW               |
| Thermal Resistance, Junction to Ambient Air (Note 1)                                       | $R_{\theta JA}$ | 300         | K/W              |
| Operating and Storage Temperature Range  | $T_j, T_{STG}$  | -65 to +175 | $^\circ\text{C}$ |

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

| Characteristic               | Symbol   | Min | Max | Unit | Test Condition  |
|------------------------------|----------|-----|-----|------|---|
| Maximum Forward Voltage Drop | $V_{FM}$ | —   | 1.0 | V    | $I_F = 50\text{mA}$   |
| Maximum Peak Reverse Current | $I_{RM}$ | —   | 50  | nA   | $V_R = 50\text{V}$  |
| Junction Capacitance         | $C_j$    | —   | 2.0 | pF   | $V_R = 0\text{V}, f = 1.0\text{MHz}$                                |
| Reverse Recovery Time        | $t_{rr}$ | —   | 4.0 | ns   | $I_F = I_R = 10\text{mA}, I_{rr} = 0.1 \times I_R, R_L = 100\Omega$ |

Note: 1. Valid provided that leads are kept at ambient temperature.