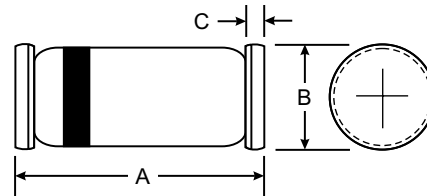


### Features

- Fast Switching
- High Reliability
- High Conductance

### Mechanical Data

- Case: MiniMELF, Glass
- Terminals: Solderable per MIL-STD-202, Method 208
- Marking: Cathode Band Only
- Polarity: Cathode Band
- Weight: 0.05 grams (approx.)



| MiniMELF             |      |      |
|----------------------|------|------|
| Dim                  | Min  | Max  |
| A                    | 3.30 | 3.70 |
| B                    | 1.30 | 1.60 |
| C                    | 0.28 | 0.50 |
| All Dimensions in mm |      |      |

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

| Characteristic                                                                             | Symbol          | LL4151      | Unit             |
|--------------------------------------------------------------------------------------------|-----------------|-------------|------------------|
| Non-Repetitive Peak Reverse Voltage @ 5.0μA                                                | $V_{RM}$        | 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 electrodes are kept at ambient temperature.