



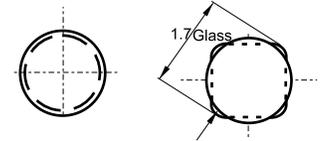
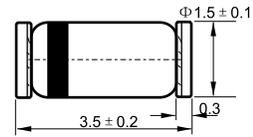
### Features

- ◇ Fast Switching
- ◇ High Reliability
- ◇ High Conductance

### Mechanical Data

- ◇ Case: MiniMELF, Glass
- ◇ Marking: Cathode Band Only
- ◇ Polarity: Cathode Band
- ◇ Weight: 0.12 grams (approx.)

### MINI MELF



Dimension in millimeters

## Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

### Maximum Ratings

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 @ $t \leq 1.0s$ @ $t = 1.0\mu s$	$I_{FSM}$	0.5 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	°C

### Electrical Characteristics

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

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