



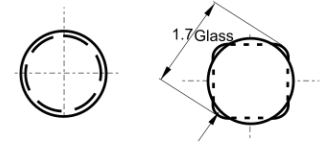
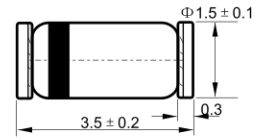
Features

- ◇ 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 ≤ 1.0s @ t = 1.0μs	I_{FSM}	0.5 2.0	A
Power Dissipation (Note 1)	P_d	500	mW
Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{θJA}$	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.