

SURFACE MOUNT FAST SWITCHING DIODE

Features

- Fast Switching
- High Reliability
- High Conductance

Mechanical Data

• Case: MiniMELF, Glass

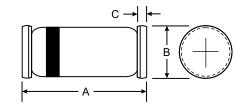
• Terminals: Solderable per MIL-STD-202,

Method 208

Marking: Cathode Band Only

Polarity: Cathode Band

Weight: 0.05 grams (approx.)



MiniMELF						
Dim	Min	Max				
Α	3.30	3.70				
В	1.30	1.60				
С	0.28	0.50				
All Dimensions in mm						

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

Characteristic	Symbol	LL4151	Unit
Non-Repetitive Peak Reverse Voltage @ 5.0μA	V _{RM}	75	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _R WM V _R	50	V
RMS Reverse Voltage	V _{R(RMS)}	35	V
Forward Continuous Current (Note 1)	I _{FM}	300	mA
Average Rectified Output Current (Note 1)	Io	150	mA
Repetitive Peak Forward Current (Note 1)	I _{FRM}	400	mA
Non-Repetitive Peak Forward Surge Current $@t \le 1.0s$ $@t = 1.0\mu s$	I _{FSM}	0.5 2.0	А
Power Dissipation (Note 1)	P _d	500	mW
Thermal Resistance, Junction to Ambient Air (Note 1)	R ₀ JA	300	K/W
Operating and Storage Temperature Range	T _j , T _{STG}	-65 to +175	°C

Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	Min	Max	Unit	Test Condition
Maximum Forward Voltage Drop	V _{FM}	_	1.0	٧	I _F = 50mA
Maximum Peak Reverse Current	I _{RM}	_	50	nA	V _R = 50V
Junction Capacitance	Cj	_	2.0	pF	V _R = 0V, f = 1.0MHz
Reverse Recovery Time	t _{rr}	_	4.0	ns	$I_F = I_R = 10 \text{mA},$ $I_{rr} = 0.1 \text{ x } I_R, R_L = 100 \Omega$

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