



# LL4454

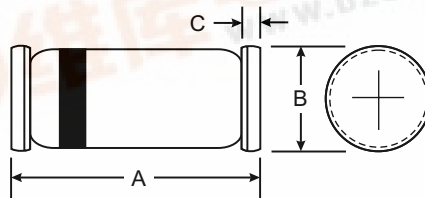
## SURFACE MOUNT SWITCHING DIODE

### Features

- High Reliability
- High Conductance
- For General Purpose Switching Applications

### 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	LL4454	Unit
Peak Repetitive Reverse Voltage	$V_{RRM}$	75	V
Working Peak Reverse Voltage	$V_{RWM}$		
DC Blocking Voltage	$V_R$		
Forward Continuous Current (Note 1)	$I_{FM}$	300	mA
Average Rectified Output Current (Note 1)	$I_O$	150	mA
Non-Repetitive Peak Forward Surge Current @ $t \leq 1.0\text{s}$ @ $t = 1.0\mu\text{s}$	$I_{FSM}$	1.0 2.0	A
Power Dissipation (Note 1)	$P_d$	400	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	Typ	Max	Unit	Test Condition
Maximum Forward Voltage Drop	$V_{FM}$	—	—	1.0	V	$I_F = 10\text{mA}$
Maximum Peak Reverse Current	$I_{RM}$	—	—	100	nA	$V_R = 50\text{V}$
Junction Capacitance	$C_j$	—	4.0	—	pF	$V_R = 0\text{V}, f = 1.0\text{MHz}$
Reverse Recovery Time	$t_{rr}$	—	4.0	—	ns	$I_F = I_R = 10\text{mA}, I_{rr} = 1.0 \times I_R, R_L = 100\Omega$

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

