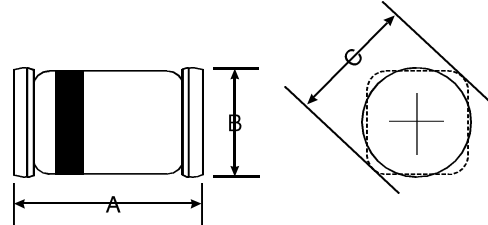


Features

Fast Switching Speed
Surface Mount Package Ideally Suited for Automatic Insertion
For General Purpose Switching Applications
High Conductance



Mechanical Data

Case: MicroMELF, Glass
Terminals: Solderable per MIL-STD-202, Method 208
Polarity: Cathode Band
Marking: Cathode Band Only
Weight: 0.012 grams (approx.)

MicroMELF		
Dim	Min	Max
A	1.8	2.0
B	1.20	1.25
C	1.35	Typical
All Dimensions in mm		

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

Characteristic	Symbol	MCL4154	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	35	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	25	V
RMS Reverse Voltage	$V_{R(RMS)}$	17	V
Forward Continuous Current (Note 1)	I_{FM}	200	mA
Average Rectified Output Current (Note 1)	I_O	100	mA
Non-Repetitive Peak Forward Surge Current @ $t = 1.0\text{ s}$	I_{FSM}	2.0	A
Power Dissipation	P_d	500	mW
Thermal Resistance Junction to Ambient Air (Note 1)	R_{JA}	300	K/W
Operating and Storage Temperature Range	T_j, T_{STG}	-65 to +175	°C

Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	Min	Max	Unit	Test Condition
Maximum Forward Voltage	V_{FM}		1.0	V	$I_F = 30\text{mA}$
Maximum Peak Reverse Current	I_{RM}		100 100	nA A	$V_R = 25\text{V}$ $V_R = 25\text{V}, T_j = 150^\circ\text{C}$
Junction Capacitance	C_j		4.0	pF	$V_R = 0, f = 1.0\text{MHz}$
Reverse Recovery Time	t_{rr}		2.0	ns	$I_F = I_R = 10\text{mA}$ $I_{rr} = 0.1 \times I_R, R_L = 100$

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

