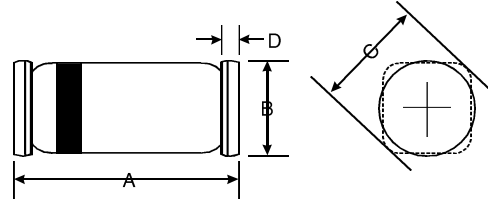


Features

Fast Switching Speed
 Surface Mount Package Ideally Suited for Automatic Insertion
 For General Purpose Switching Applications
 High Conductance
 Outline Similar to JEDEC 213AA



Mechanical Data

Case: QuadroMELF, Glass
 Terminals: Solderable per MIL-STD-202, Method 208
 Polarity: Cathode Band
 Marking: Cathode Band Only
 Weight: 0.034 grams (approx.)

QuadroMELF		
Dim	Min	Max
A	3.3	3.7
B	1.4	1.6
C	1.7 Typical	
D	0.3 Typical	
All Dimensions in mm		

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

Characteristic	Symbol	LS4150	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	50	V
RMS Reverse Voltage	$V_{R(RMS)}$	35	V
Forward Continuous Current (Note 1)	I_{FM}	600	mA
Average Rectified Output Current (Note 1)	I_O	300	mA
Non-Repetitive Peak Forward Surge Current @ $t = 1.0\text{ s}$	I_{FSM}	4.0	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 @ $T_A = 25\text{ C}$ unless otherwise specified

Characteristic	Symbol	Min	Max	Unit	Test Condition
Maximum Forward Voltage	V_{FM}	0.54 0.66 0.76 0.82 0.87	0.62 0.74 0.86 0.92 1.0	V	$I_F = 1.0\text{mA}$ $I_F = 10\text{mA}$ $I_F = 50\text{mA}$ $I_F = 100\text{mA}$ $I_F = 200\text{mA}$
Maximum Peak Reverse Current	I_{RM}		100 100	nA A	$V_R = 50\text{V}$ $V_R = 50\text{V}, T_J = 150\text{ C}$
Junction Capacitance	C_j		2.5	pF	$V_R = 0, f = 1.0\text{MHz}$
Reverse Recovery Time	t_{rr}		4.0	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.

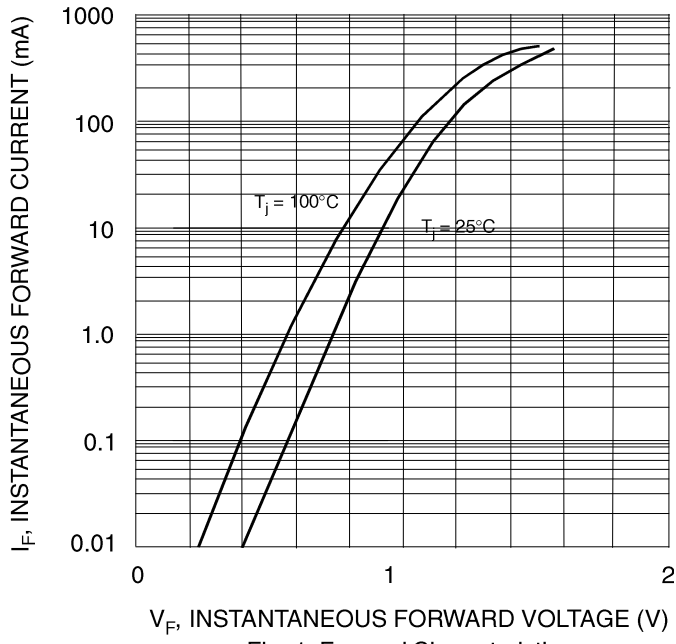


Fig. 1 Forward Characteristics

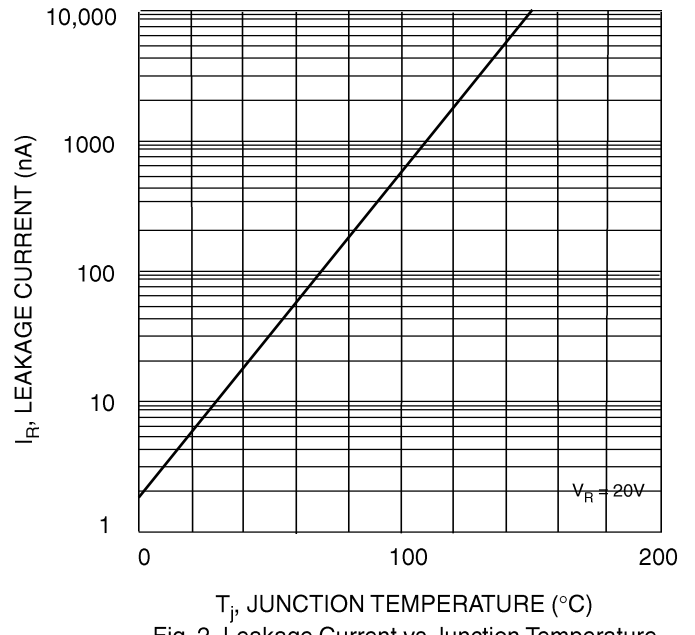


Fig. 2 Leakage Current vs Junction Temperature