

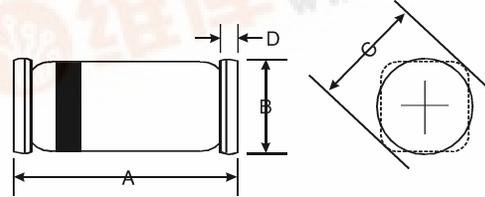


LS4150

SURFACE MOUNT FAST SWITCHING DIODE

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 C unless otherwise specified

Characteristic	Symbol	LS4150	Unit
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}	600	mA
Average Rectified Output Current (Note 1)	I _O	300	mA
Non-Repetitive Peak Forward Surge Current @ t = 1.0 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 C unless otherwise specified

Characteristic	Symbol	Min	Max	Unit	Test Condition
Maximum Forward Voltage	V _{FM}	0.54	0.62	V	I _F = 1.0mA
		0.66	0.74		I _F = 10mA
		0.76	0.86		I _F = 50mA
		0.82	0.92		I _F = 100mA
		0.87	1.0		I _F = 200mA
Maximum Peak Reverse Current	I _{RM}		100	nA	V _R = 50V
			100	A	V _R = 50V, T _J = 150 C
Junction Capacitance	C _j		2.5	pF	V _R = 0, f = 1.0MHz
Reverse Recovery Time	t _{rr}		4.0	ns	I _F = I _R = 10mA, I _{rr} = 0.1 x I _R , R _L = 100

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



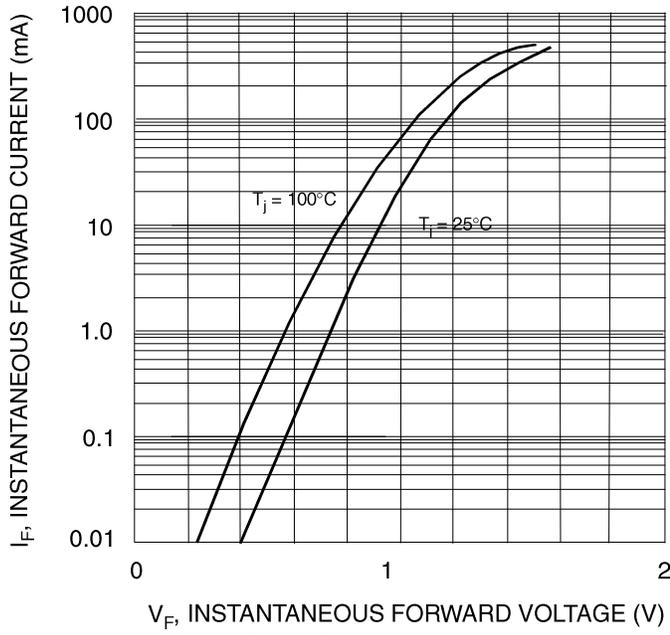


Fig. 1 Forward Characteristics

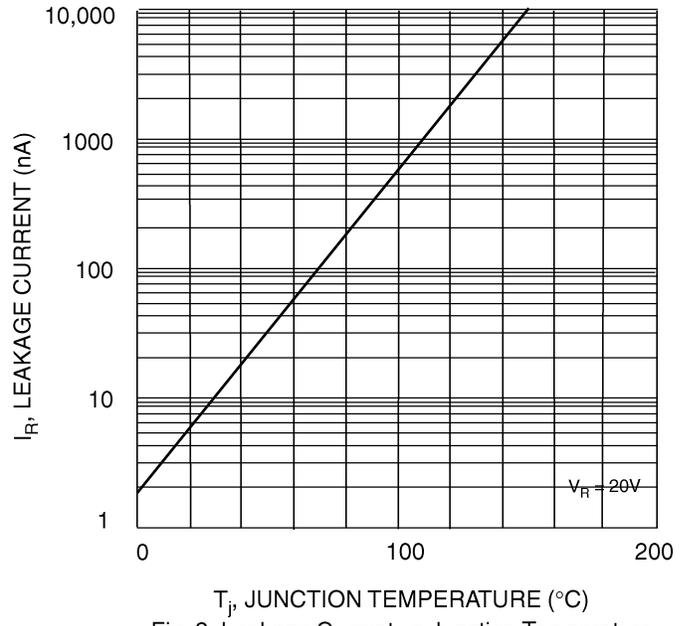


Fig. 2 Leakage Current vs Junction Temperature