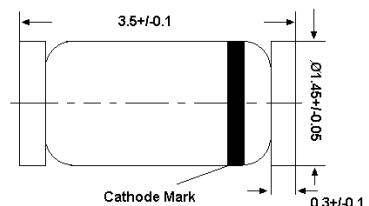


Silicon Epitaxial Planar Switching Diode

Fast switching diode in MiniMELF case especially suited for automatic surface mounting



Glass case MiniMELF
Dimensions in mm

LL-34

Absolute Maximum Ratings (Ta=25°C)

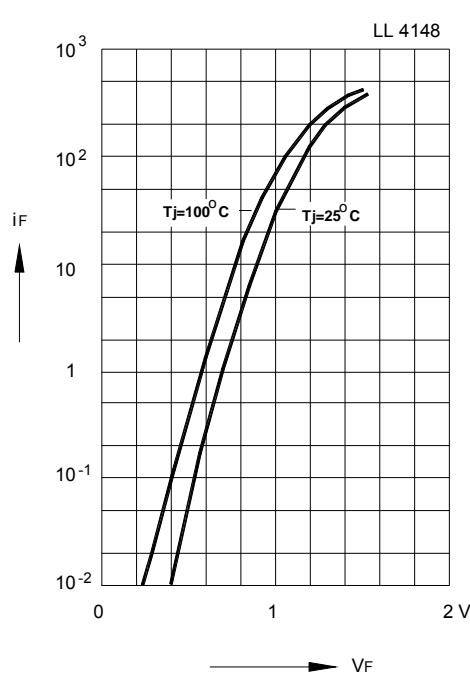
Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V _{RM}	100	V
Reverse Voltage	V _R	75	V
Average Rectified Forward Current	I _{F(AV)}	200	mA
Non-repetitive Peak Forward Surge Current at t = 1 s at t = 1 ms at t = 1 µs	I _{FSM}	0.5 1 4	A
Power Dissipation	P _{tot}	500 ¹⁾	mW
Junction Temperature	T _j	175	°C
Storage Temperature Range	T _{stg}	- 65 to + 175	°C

¹⁾ Valid provided that electrodes are kept at ambient temperature.

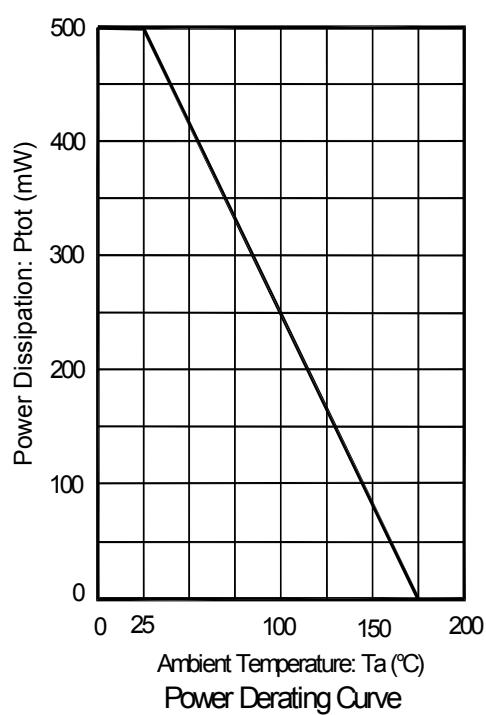
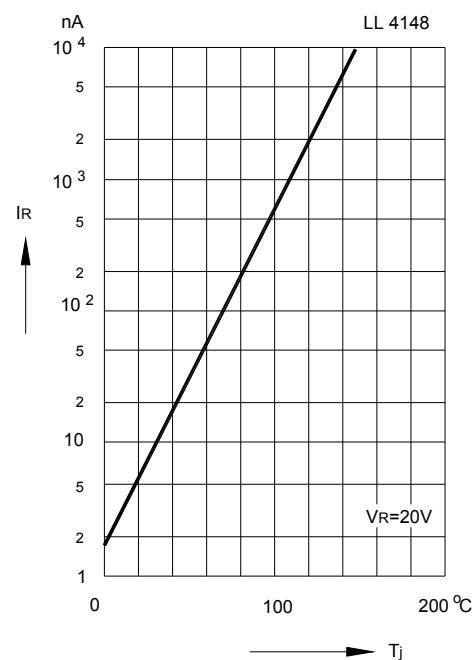
Characteristics at Ta=25°C

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage tested with 100 µA Pulses	V _{(BR)R}	100	-	V
Forward Voltage at I _F = 10 mA	V _F	-	1	V
Leakage Current at V _R = 20 V at V _R = 75 V at V _R = 20 V, T _j = 150°C	I _R I _R I _R	- - -	25 5 50	nA µA µA
Capacitance at V _R = 0, f = 1 MHz	C _{tot}	-	4	pF
Voltage Rise when Switching ON tested with 50 mA Forward Pulses tp = 0.1 s, Rise Time < 30 ns, fp = 5 to 100 KHz	V _{fr}	-	2.5	V
Reverse Recovery Time at I _F = 10 mA to I _R = 1 mA, Irr = 0.1 x I _R , V _R = 6 V, R _L = 100 Ω	t _{rr}	-	4	ns

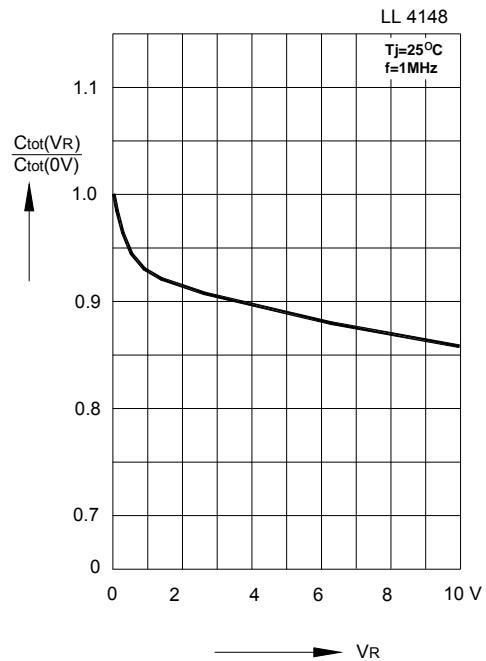
Forward characteristics



Leakage current versus junction temperature



Relative capacitance versus reverse voltage



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