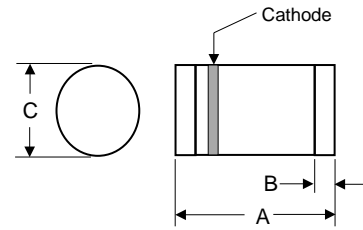


Features

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



RoHS
COMPLIANT



LL-34				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.134	0.142	3.40	3.60
B	0.008	0.016	0.20	0.40
C	0.055	0.059	1.40	1.50

Maximum Ratings (T_A=25°C unless otherwise noted)

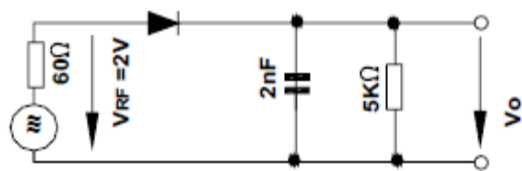
Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V_{RM}	100	V
Reverse Voltage	V_R	75	V
Average Rectified Forward Current	$I_{F(AV)}$	200	mA
Non-repetitive Peak Forward Surge Current at t = 1 s at t = 1 ms at t = 1 μ s	I_{FSM}	0.5 1 4	A
Power Dissipation	P_{tot}	500 ¹⁾	mW
Junction Temperature	T_j	175	°C
Storage Temperature Range	T_{stg}	- 65 to + 175	°C

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

Electrical Characteristics (T_A=25°C unless otherwise noted)

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	- - -	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 t _p = 0.1 s, Rise Time < 30 ns, f _p = 5 to 100 KHz	V _{fr}	-	2.5	V
Reverse Recovery Time at I _F = 10 mA to I _R = 1 mA, I _{rr} = 0.1 x I _R , V _R = 6 V, R _L = 100 Ω	t _{rr}	-	4	ns
Thermal Resistance Junction to Ambient Air	R _{thA}	-	0.35 ¹⁾	K/mW
Rectification Efficiency at f = 100 MHz, V _{RF} = 2 V	η _v	0.45	-	-

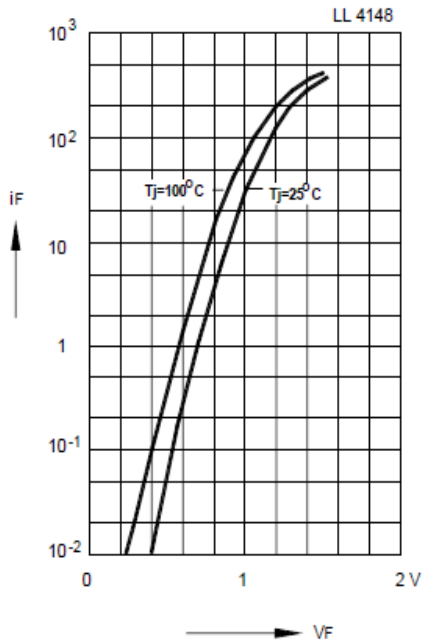
1) Valid provided that electrodes are kept at ambient temperature.



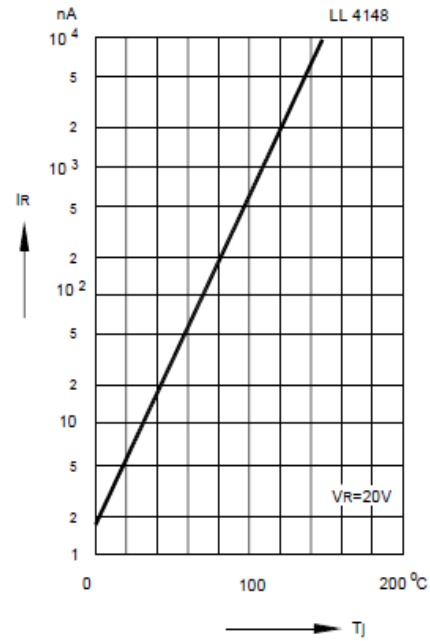
Rectification Efficiency Measurement Circuit

Ratings and Characteristic Curves

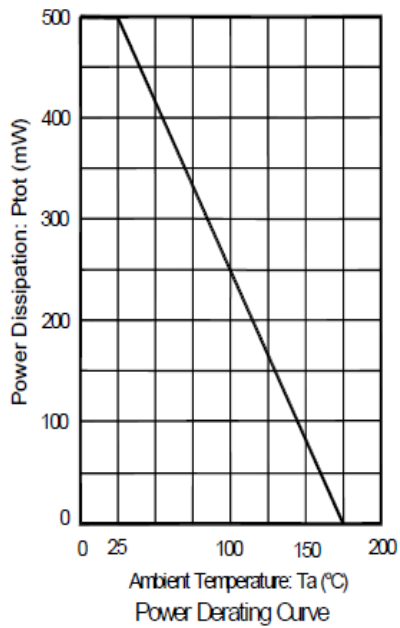
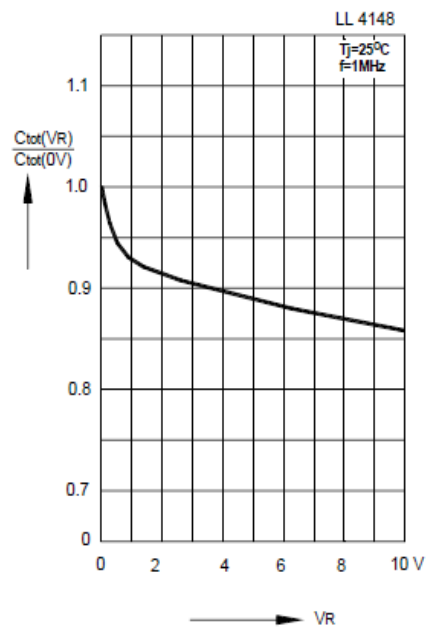
Forward characteristics



Leakage current versus junction temperature



Relative capacitance versus reverse voltage





LL4148

Silicon Epitaxial Planar Switching Diode

Ordering Information

Part No.	Package	Packing Code	Packing
LL4148	LL-34	R25	2500pcs/Reel

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