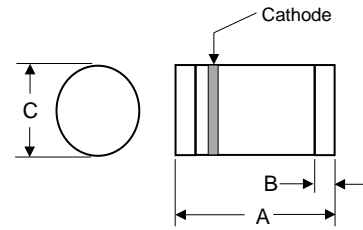


Features

- * Fast switching diode in MiniMELF case especially suited for automatic surface mounting.
- * Identical electrically to standard 1N4448.



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)

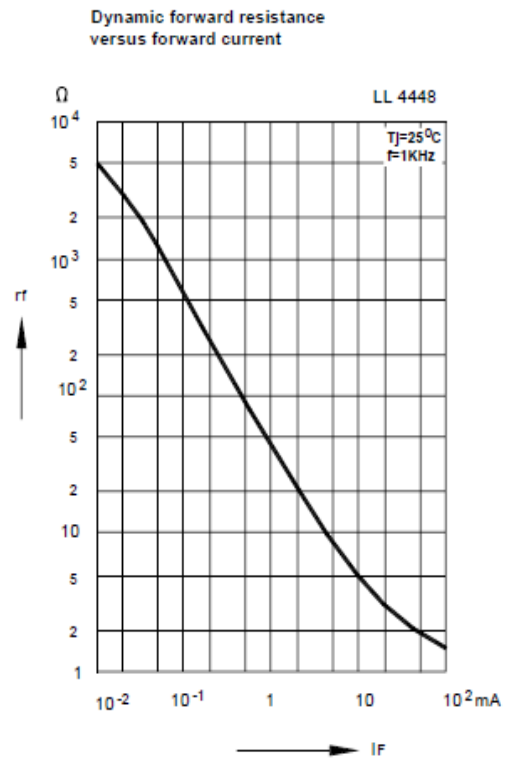
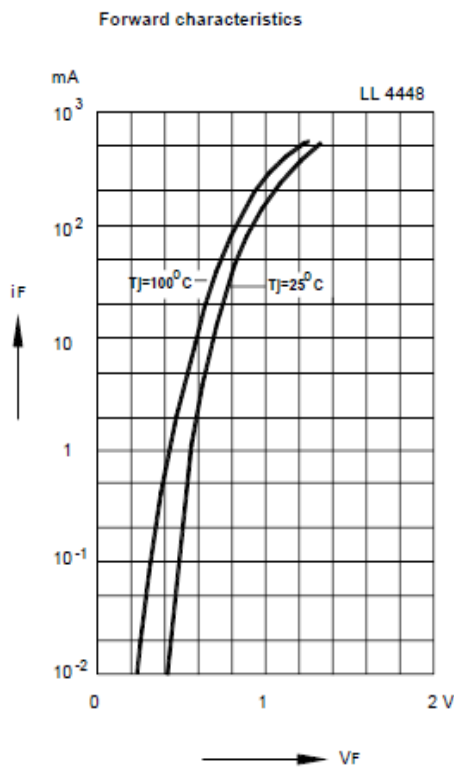
Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V_{RM}	100	V
Reverse Voltage	V_R	75	V
Average Rectified Forward Current	$I_{F(AV)}$	150	mA
Surge Forward Current at $t < 1$ s	I_{FSM}	500	mA
Power Dissipation	P_{tot}	500 ¹⁾	mW
Junction Temperature	T_j	175	°C
Storage Temperature Range	T_{stg}	- 65 to + 175	°C

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

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

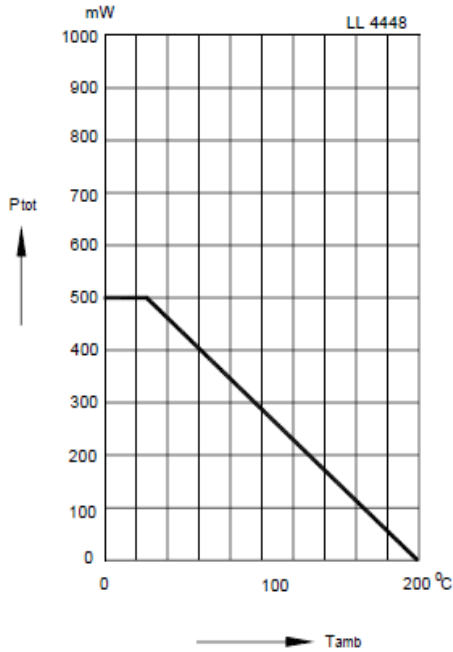
Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at I _F = 5 mA at I _F = 100 mA	V _F	0.62 -	0.72 1	V
Reverse Leakage Current at V _R = 20 V at V _R = 75 V at V _R = 20 V, T _j = 150 °C	I _R	- - -	25 5 50	nA μA μA
Reverse Breakdown Voltage at I _R = 100 μA	V _{(BR)R}	100	-	V
Capacitance at V _R = 0, f = 1 MHz	C _{tot}	-	4	pF
Reverse Recovery Time at I _F = 10 mA to I _R = 1 mA, V _R = 6 V, R _L = 100 Ω	t _{rr}	-	4	ns

Ratings and Characteristic Curves

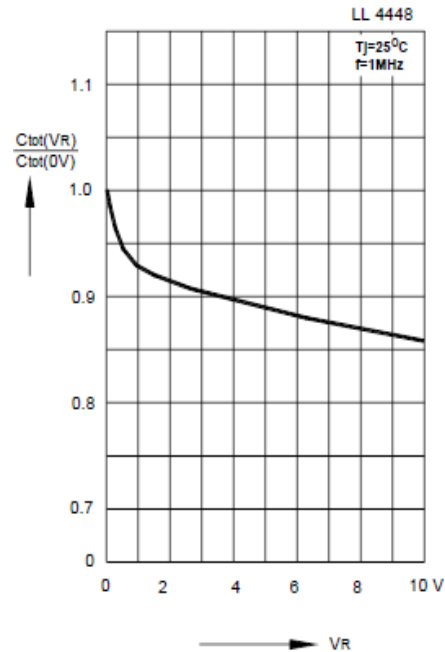


Ratings and Characteristic Curves

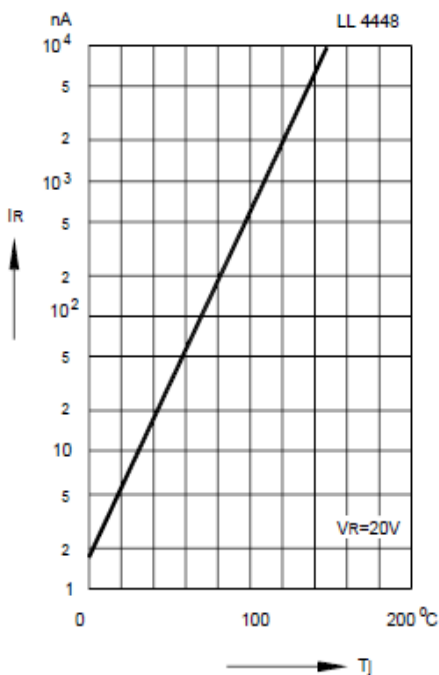
Admissible power dissipation versus ambient temperature
Valid provided that leads at a distance of 8 mm from case are kept at ambient temperature



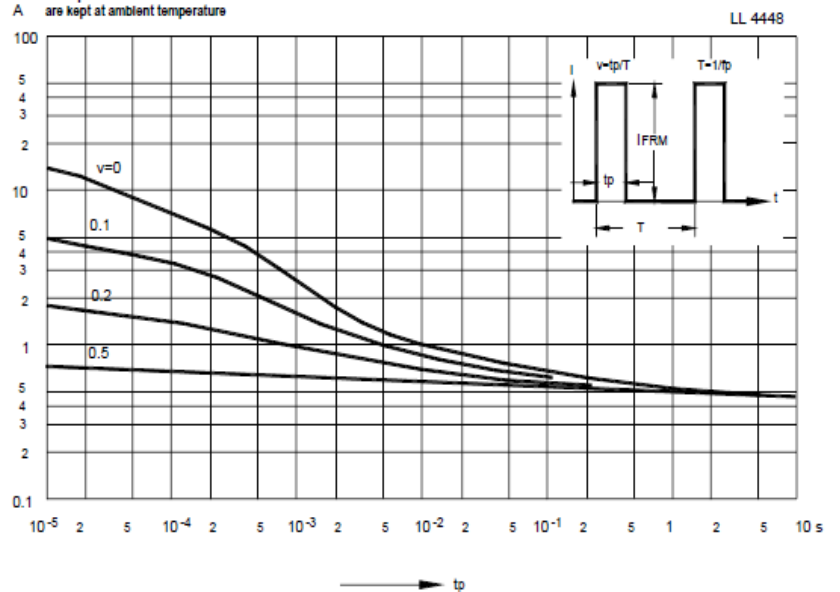
Relative capacitance versus reverse voltage



Leakage current versus junction temperature



Admissible repetitive peak forward current versus pulse duration
Valid provided that leads at a distance of 8 mm from case are kept at ambient temperature





LL4448
Silicon Epitaxial Planar Switching Diode

Ordering Information

Part No.	Package	Packing Code	Packing
LL4448	LL-34	R25	2500pcs/Reel

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