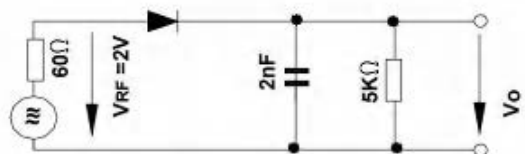




## Features

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



Rectification Efficiency Measurement Circuit



LL-34



## Maxmim Ratings (Ta=25 unless otherwise noted)

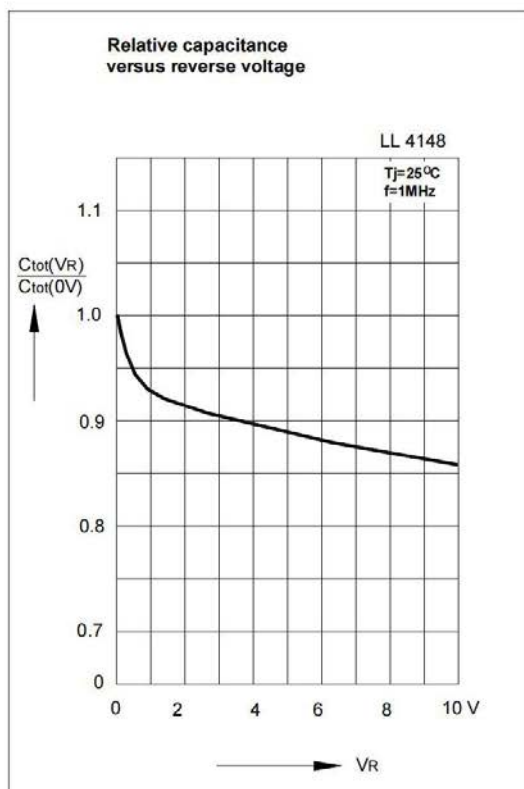
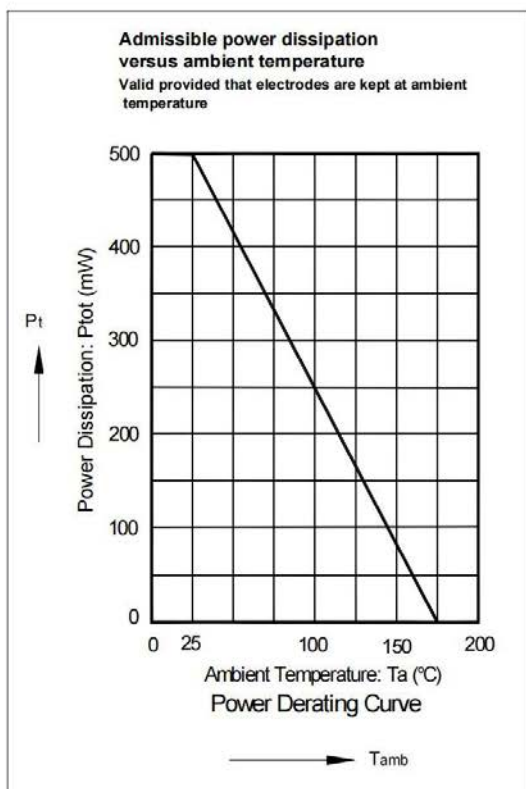
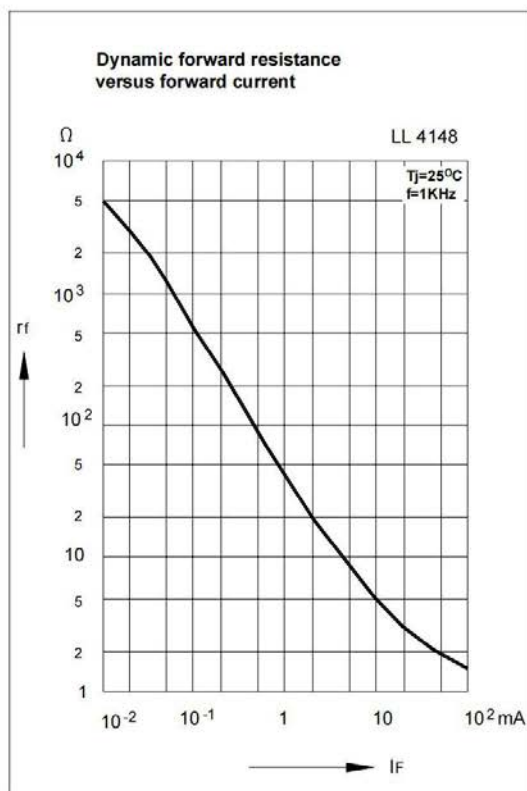
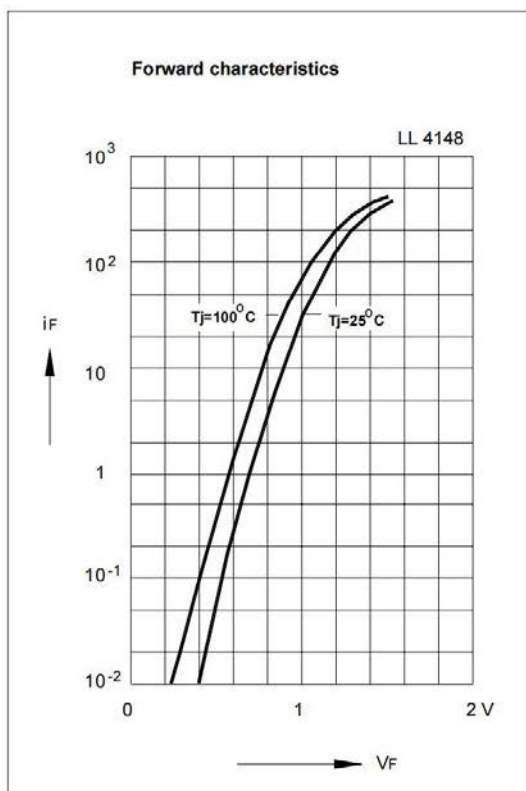
Parameter	Symbol	Value	Unit
Peak Reverse Voltage	$V_{RM}$	100	V
Reverse Voltage	$V_R$	75	V
Average Rectified Forward Current	$I_{F(AV)}$	200	mA
Non-repetitive Peak Forward Surge Current	$I_{FSM}$	0.5	A
at $t = 1$ s		1	
at $t = 1$ ms		4	
at $t = 1$ $\mu$ s			
Power Dissipation	$P_{tot}$	500	mW
Junction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

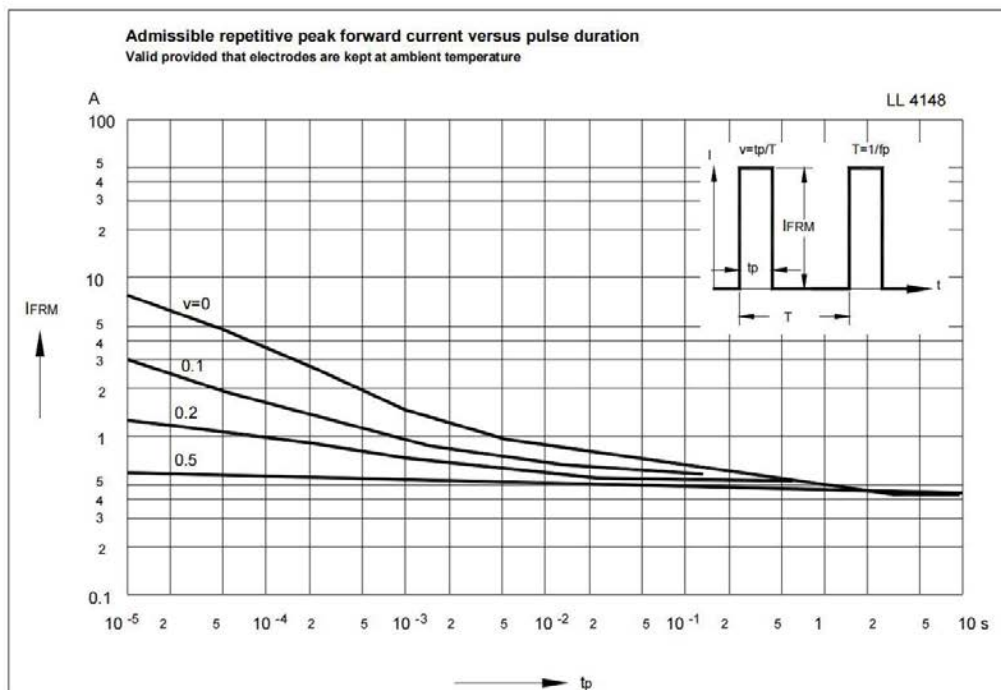
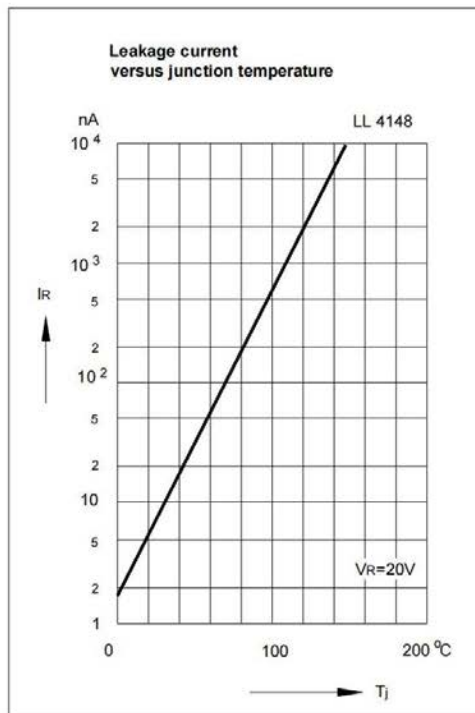
## Charcteristics (Ta=25 )

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage tested with 100 $\mu$ A Pulses	$V_{(BR)R}$	100	-	V
Forward Voltage at $I_F = 10$ mA	$V_F$	-	1	V
Leakage Current at $V_R = 20$ V	$I_R$	-	25	nA
at $V_R = 75$ V	$I_R$	-	5	$\mu$ A
at $V_R = 20$ V, $T_j = 150^\circ\text{C}$	$I_R$	-	50	$\mu$ A
Capacitance at $V_R = 0$ V, $f = 1$ 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, $I_{rr} = 0.1 \times I_R$ , $V_R = 6$ V, $R_L = 100 \Omega$	$t_{rr}$	-	4	ns



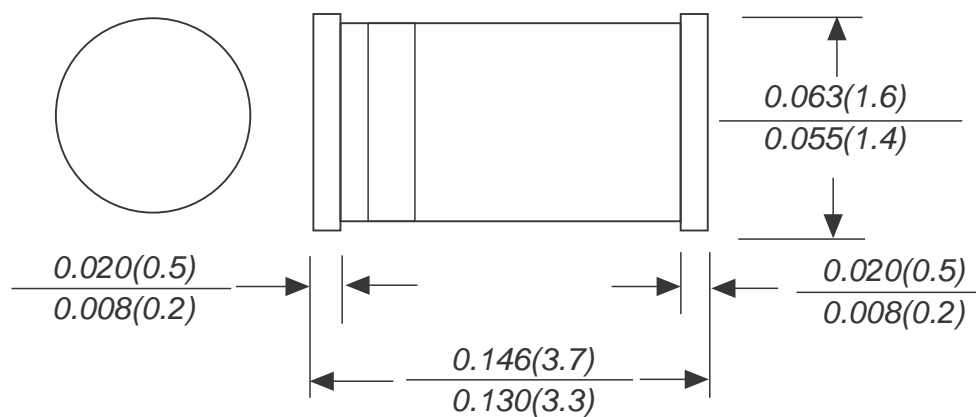
## Typical Characteristics







## LL-34 Package Information



*Dimensions in inches and (millimeters)*



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