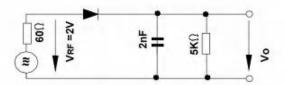


Features

Fast switching diode in MiniMELF case especially suitedfor automatic surface mounting.



Rectification Efficiency Measurement Circuit





Absolute Maximum Ratings (T_a = 25 °C)

Parameter Peak Reverse Voltage Reverse Voltage		Value	Unit V V
		100	
		75	
	I _{F(AV)}	200	mA
at t = 1 s at t = 1 ms at t = 1 µs	I _{FSM}	0.5 1 4	А
	P _{tot}	500 ¹⁾	mW
N. Ing	Tj	175	°C
	T _{stg}	- 65 to + 175	°C
	at t = 1 ms	at t = 1 s at t = 1 ms at t = 1 µs IFSM IFSM Ptot Tj	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

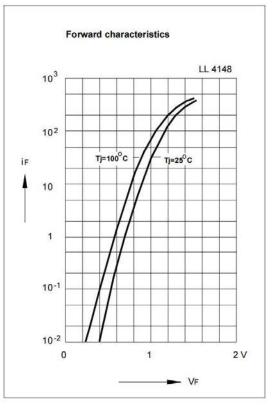
Characteristics at Ta = 25 °C

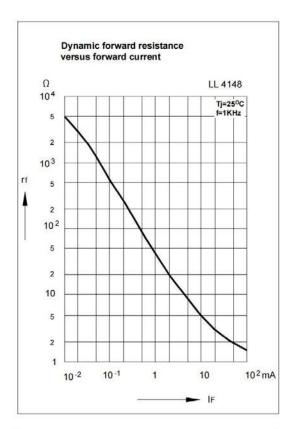
Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at I _F = 10 mA	V _F		1	٧
Leakage Current at $V_R = 20 \text{ V}$ at $V_R = 75 \text{ V}$ at $V_R = 20 \text{ V}$, $T_j = 150 \text{ °C}$	I _R I _R I _R	-	25 5 50	nA μΑ μΑ
Reverse Breakdown Voltage tested with 100 μA Pulses	V _{(BR)R}	100	-	٧
Capacitance 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	٧
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
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 temperatu	ro.			

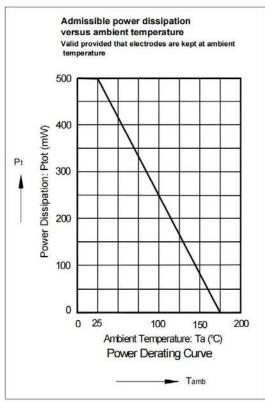
¹⁾ Valid provided that electrodes are kept at ambient temperature.

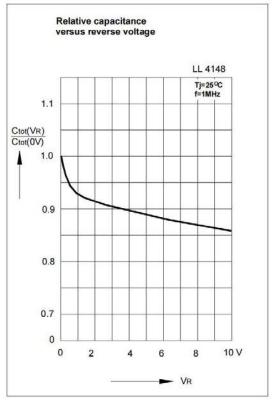


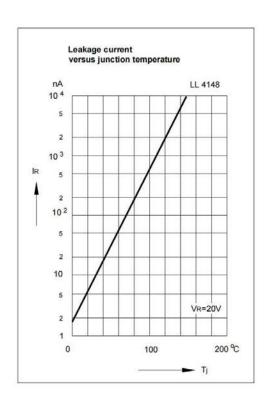
Typical Characteristics

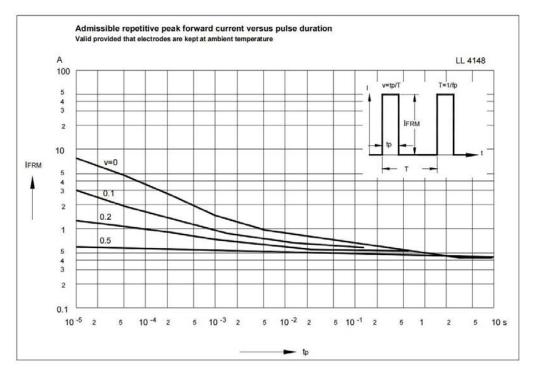




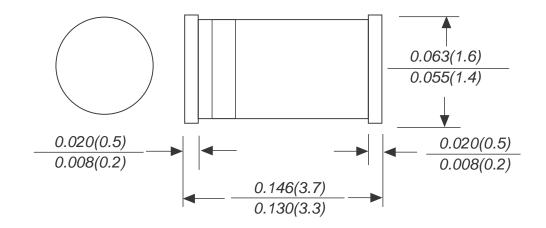








LL-34(SOD-80) Package Information



Dimensions in inches and (millimeters)



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