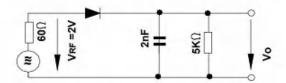
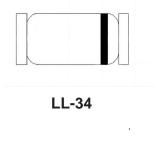


#### **FEATURES**

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



**Rectification Efficiency Measurement Circuit** 



#### Absolute Maximum Ratings (T<sub>a</sub> = 25 °C)

Parameter		Value	Unit
	$V_{RM}$	100	V
V <sub>R</sub>		75	V
	I <sub>F(AV)</sub>	200	mA
at t = 1 s at t = 1 ms at t = 1 µs	I <sub>FSM</sub>	0.5 1 4	А
	P <sub>tot</sub>	500 <sup>1)</sup>	mW
	Tj	175	°C
	T <sub>stg</sub>	- 65 to + 175	
	at t = 1 ms	$V_{R}$ $I_{F(AV)}$ at t = 1 s at t = 1 ms at t = 1 $\mu$ s $P_{tot}$ $T_{j}$	$\begin{array}{c ccccc} & V_{RM} & 100 \\ & V_{R} & 75 \\ & I_{F(AV)} & 200 \\ \\ at \ t = 1 \ s & 0.5 \\ at \ t = 1 \ ms & 1 \\ at \ t = 1 \ \mu s & 4 \\ & P_{tot} & 500 \ ^{1)} \\ & T_{j} & 175 \\ \end{array}$

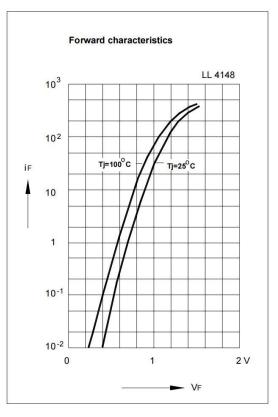
## Characteristics at Ta = 25 °C

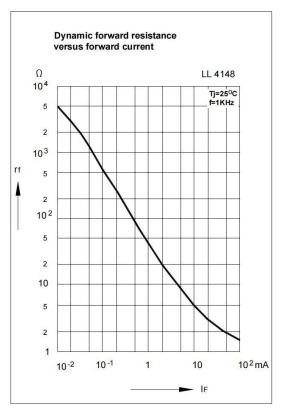
Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at I <sub>F</sub> = 10 mA	V <sub>F</sub>	-	1	٧
Leakage Current at $V_R = 20 \text{ V}$ at $V_R = 75 \text{ V}$ at $V_R = 20 \text{ V}$ , $T_j = 150 ^{\circ}\text{C}$	I <sub>R</sub> I <sub>R</sub> I <sub>R</sub>	-	25 5 50	nA μA μA
Reverse Breakdown Voltage tested with 100 μA Pulses	V <sub>(BR)R</sub>	100	-	V
Capacitance at $V_R = 0$ , $f = 1$ MHz	C <sub>tot</sub>	-	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 <sub>fr</sub>	-	2.5	٧
Reverse Recovery Time at $I_F$ = 10 mA to $I_R$ = 1 mA, $V_R$ = 6 V, $R_L$ = 100 $\Omega$	t <sub>rr</sub>	-	4	ns
Thermal Resistance Junction to Ambient Air	R <sub>thA</sub>	-	0.35 1)	K/mW
Rectification Efficiency at f = 100 MHz, V <sub>RF</sub> = 2 V	ην	0.45	-	,
1) Valid provided that electrodes are kept at ambient temperatu	iro			

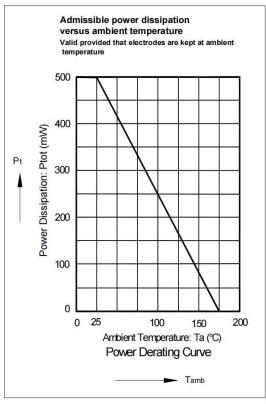
<sup>1)</sup> Valid provided that electrodes are kept at ambient temperature.

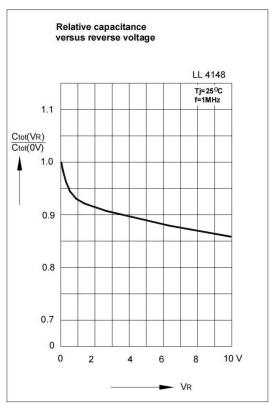


## **Typical Characteristics**

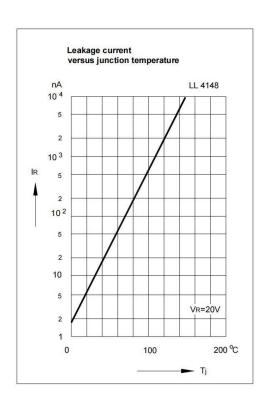


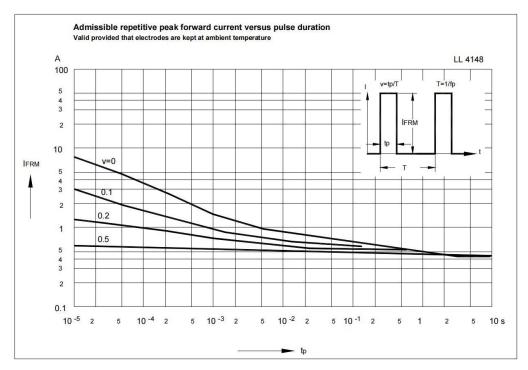




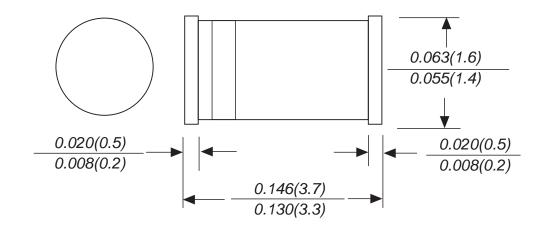








# **LL-34 Package Information**



Dimensions in inches and (millimeters)



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