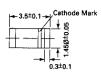
LL4148

Silicon Expitaxial Planar Diode

fast switching diode in MiniMELF case especially suited for automatic surface mounting. Identical electrically to standard JEDEC 1N4148



Glass case MiniMELF

These diodes are delivered taped. Details see "Taping".

Weight approx. 0.05g Dimensions in mm

Absolute Maximum Ratings $(T_a = 25 \text{ }^{\circ}\text{C})$

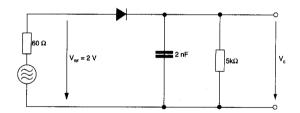
	Symbol	Value	Unit
Reverse Voltage	V _R	75	V
Peak Reverse Voltage	V _{RM}	100	V
Rectified Current (Average) Half Wave Rectification with Resist. Load at T_{amb} = 25 °C and f \geq 50 Hz	I _o	l _o 150 ¹)	
Surge Forward Current at t < 1 s and T _j = 25 °C	I _{FSM}	500	mA
Power Dissipation at T _{amb} = 25 °C	P _{tot}	500 ¹⁾	mW
Junction Temperature	T _i	175	°C
Storage Temperature Range	T _s	-65 to + 175	°C
1) Valid provided that electrodes are kept at ambient temper	erature		





Characteristics at T_i = 25 °C

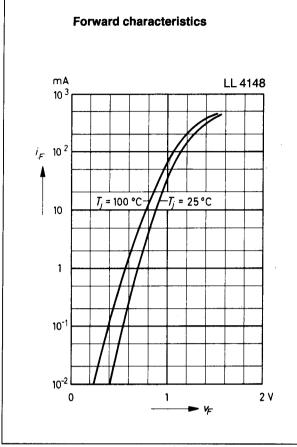
	Symbol	Min.	Тур.	Max.	Unit
Forward Voltage at I _F = 10 mA	V _F	-	-	1	V
Leakage Current at $V_R = 20 \text{ V}$ at $V_R = 75 \text{ V}$ at $V_R = 20 \text{ V}$, $T_j = 150 \text{ °C}$	I _R I _R	- - -	- - -	25 5 50	nA μA μA
Reverse Breakdown Voltage tested with 100 μA Pulses	V _{(BR)R}	100	-	-	V
Capacitance at $V_F = V_R = 0$	C _{tot}	•		4	pF
Voltage Rise when Switching ON tested with 50 mA Forward Pulses tp = 0.1 s, Rise Time < 30ns, fp = 5 to 100 kHz	V _{fr} .	-	-	2.5	V
Reverse Recovery Time from $I_F = 10$ mA to $I_R = 1$ mA, $V_R = 6$ V, $R_L = 100$ Ω ,	t _m	-	-	4	ns
Thermal Resistance Junction to Ambient Air	R _{thA}	-	-	0.351)	K/mW
Rectification Efficiency at f = 100 MHz, V _{PF} = 2 V	ην	0.45	-	-	-

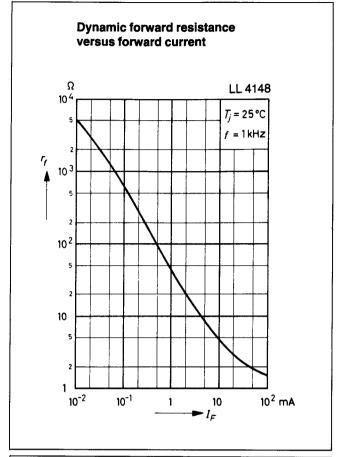


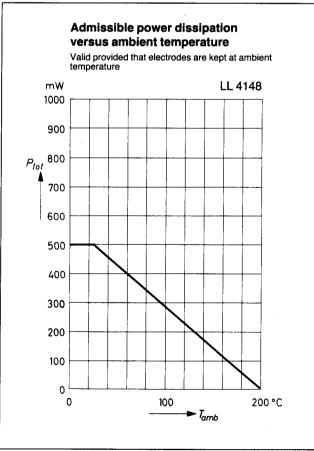
Rectification Efficiency Measurement Circuit

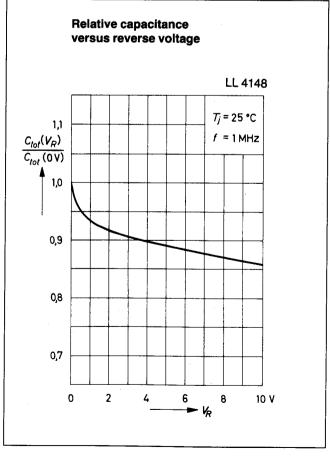








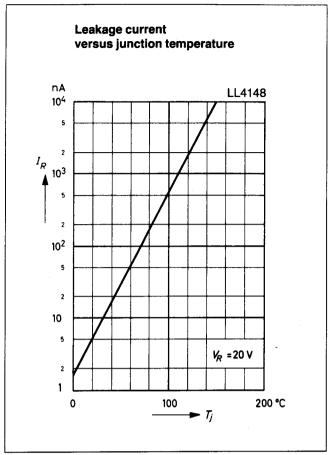


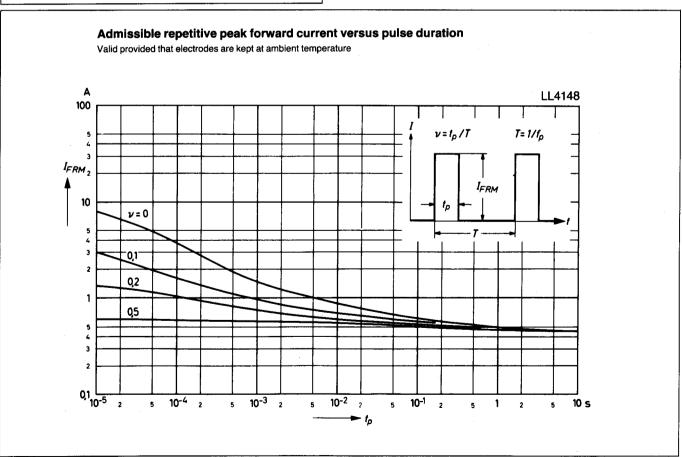


















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