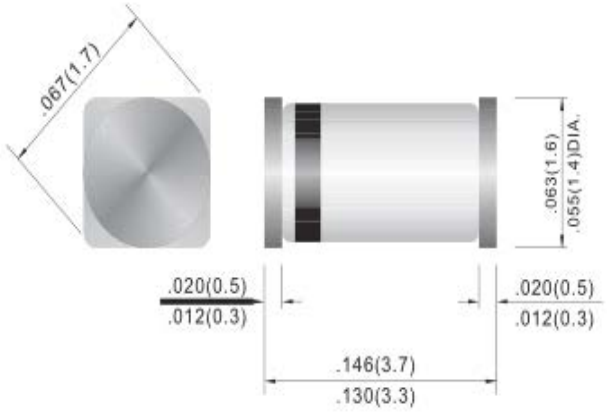
LL4148

Fast Switching Diodes	REVERSE VOLTAGE **- 75** Volts FORWARD CURRENT **- 0.2** Amperes

FEATURES

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

DL-35



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.

MAXIMUM RATINGS

CHARACTERISTICS	SYMBOL	LL4148	UNIT
Peak Reverse Voltage	V_{RM}	100	V
Reverse Vltage	V_R	75	V
Average Rectified Forward Current	$I_{F(AV)}$	200	mA
Non-repetitive Peak Forward Surge Current at t = 1 s	I_{FSM}	0.5	A
at t = 1 ms		1	
at t = 1 μs		4	
Power Dissipation	P_{tot}	500(1)	mW
Junction Temperature	T_J	-55 to + 150	℃
Storage Temperature Range	T_{STG}	-65 to + 175	℃

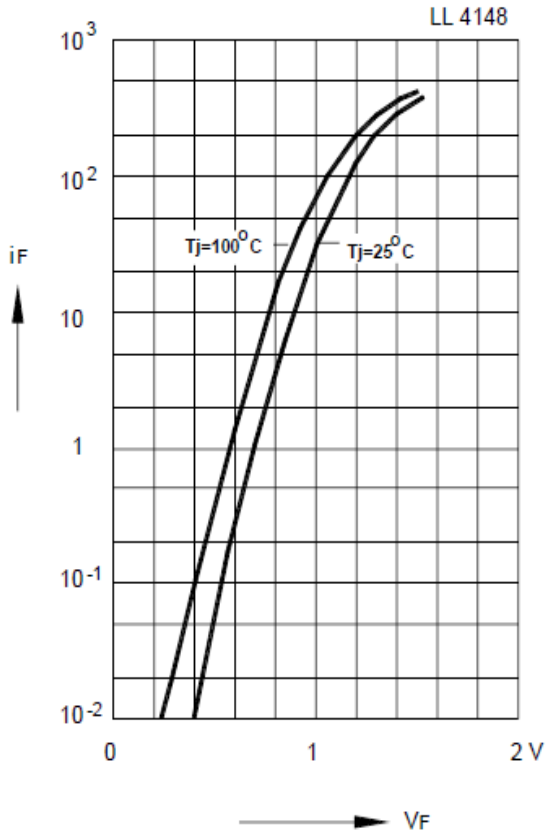
NOTE:(1) Valid provided that electrodes are kept at ambient temperature .

ELECTRICAL CHARACTERISTICS

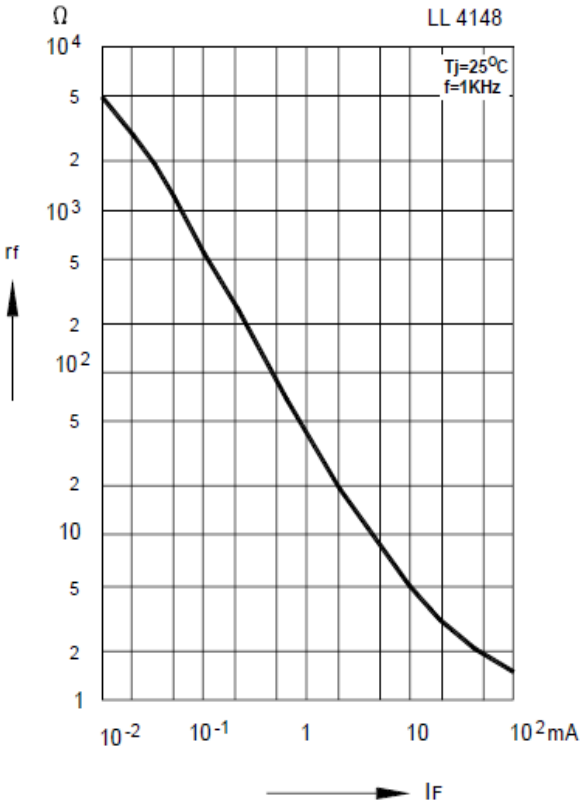
CHARACTERISTICS	SYMBOL	MIN	MAX	UNIT
Reverse Breakdown Voltage tested with 100 μA Pulses	$V_{(BR)R}$	100	-	V
Forward Voltage at I_F=10mA	V_F	-	1	V
Leakage Current				
at V_R=20V	I_R	-	25	nA
at V_R=75V	I_R	-	5	uA
at V_R=20V T_J=150℃	I_R	-	50	uA
Capacitance at V_R=0V,f=1MHZ	C_{tot}	-	4	pF
Voltage Rise When Switching ON Tested With 50mA Pulses tp=0.1us.Rise Time<30ns.fp=5 to 100Hz	V_{fr}	-	2.5	v
Reverse Recovery Time From I_F=10mA V_R=6V. RL=100Ω at I_R=1mA	t_{rr}	-	4	ns
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	-	350(1)	℃/W
Rectification Effciency at 100MHZ V_{RF}=2V	η_V	0.45	-	-

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

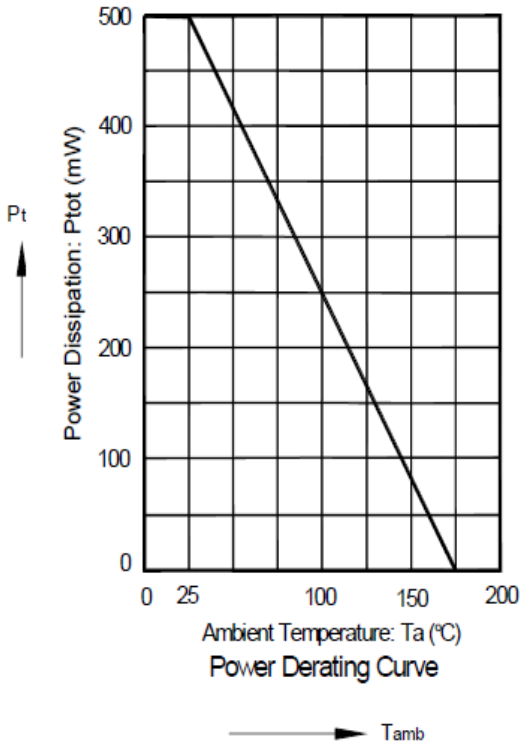
Forward characteristics



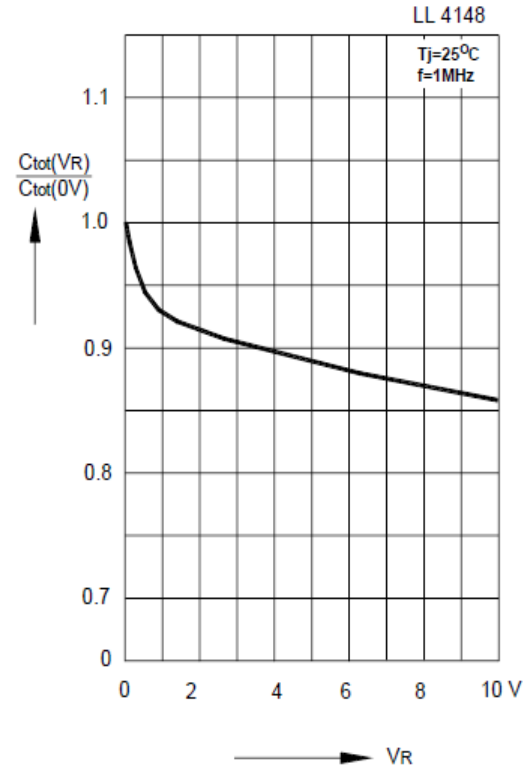
Dynamic forward resistance
versus forward current



Admissible power dissipation
versus ambient temperature
Valid provided that electrodes are kept at ambient temperature

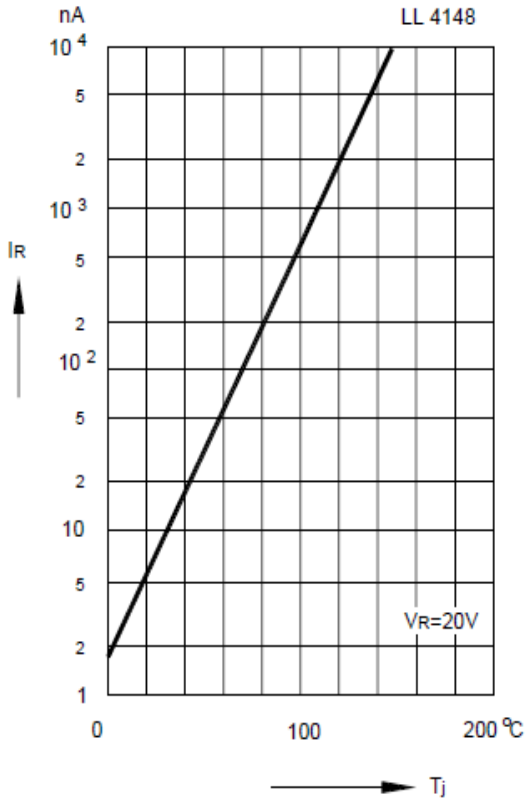


Relative capacitance
versus reverse voltage

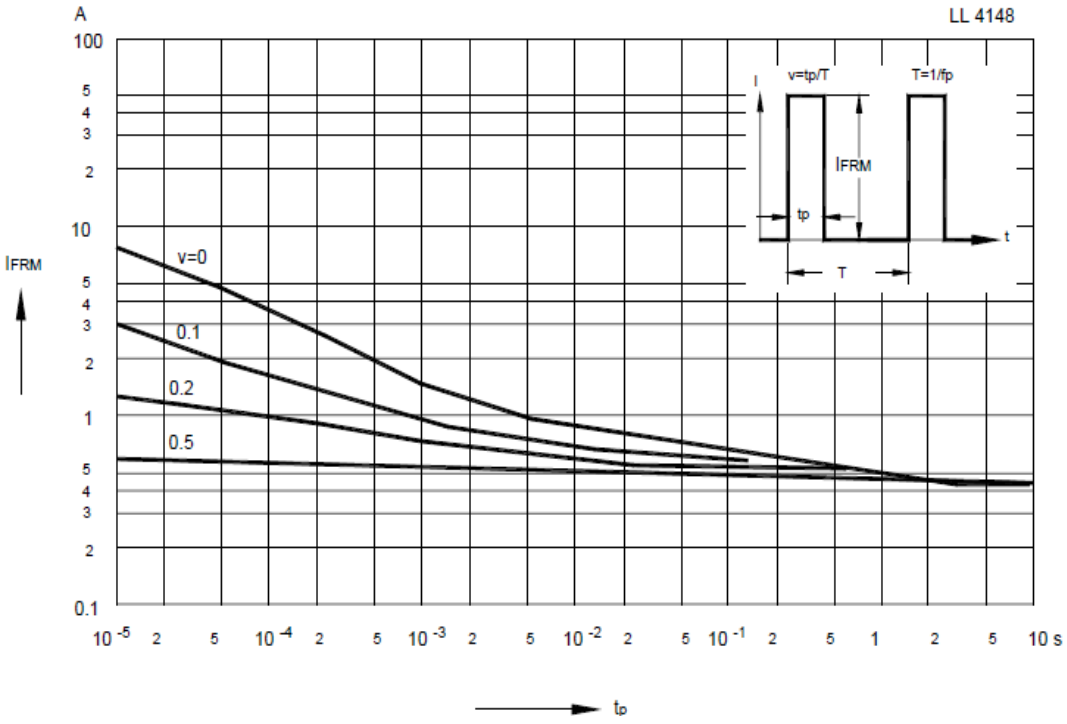


The curve above is for reference only. 曲线图仅供参考。

Leakage current
versus junction temperature



Admissible repetitive peak forward current versus pulse duration
Valid provided that electrodes are kept at ambient temperature



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