

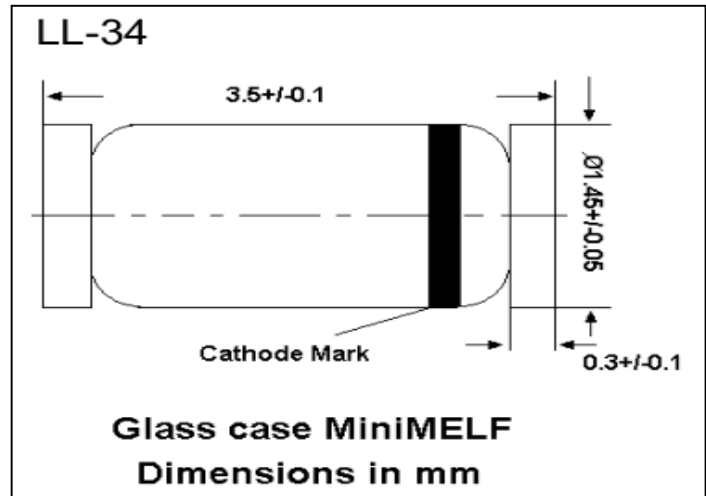
LL4148

FEATURES

- Low reverse leakage
- Fast switching speed
- High stability and high reliability

MECHANICAL DATA

- Case: Glass Case Minimelf
- Polarity: Color band denotes cathode end
- Mounting Position: Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25°C ambient temperature unless otherwise specified

Parameter	SYMBOLS	Value	UNIT
Reverse Voltage	V_R	75	Volts
Peak Reverse Voltage	V_{RM}	100	Volts
Average Rectified Forward Current	$I_{(AV)}$	200	mAmps
Non-repetitive Peak Forward Surge Current		0.5	Amps
at $t = 1$ s	I_{FSM}	1	
at $t = 1$ ms at $t = 1$ μ s		4	
Power Dissipation	P_{tot}	500	mW
Junction Temperature	T_J	175	°C
Storage Temperature Range	T_{STG}	(-65 to +175)	°C

Valid provided that electrodes are kept at ambient temperature.

Characteristics at $T_a = 25$ °C

Parameter	SYMBOLS	Value	UNIT
Forward Voltage at $I_F = 10$ mA	V_F	1	Volts
Leakage Current at $V_R = 20$ V at $V_R = 75$ V at $V_R = 20$ V, $T_J = 150$ °C	I_R	25 5 50	n A μ A μ A
Reverse Breakdown Voltage tested with 100 μ A Pulses	$V_{(BR)R}$	100	Volts
Capacitance at $V_R = 0$, $f = 1$ MHz	C_{tot}	4	pF
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	K/mW

Notes:

1. Pulse test: 300 μ s pulse width, 1% duty cycle

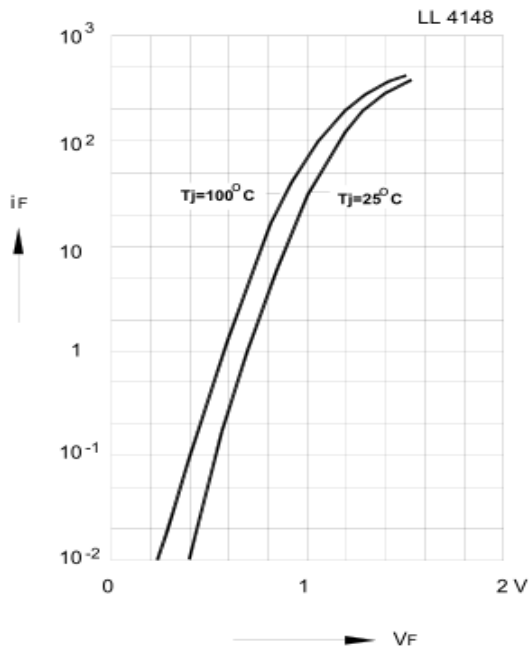


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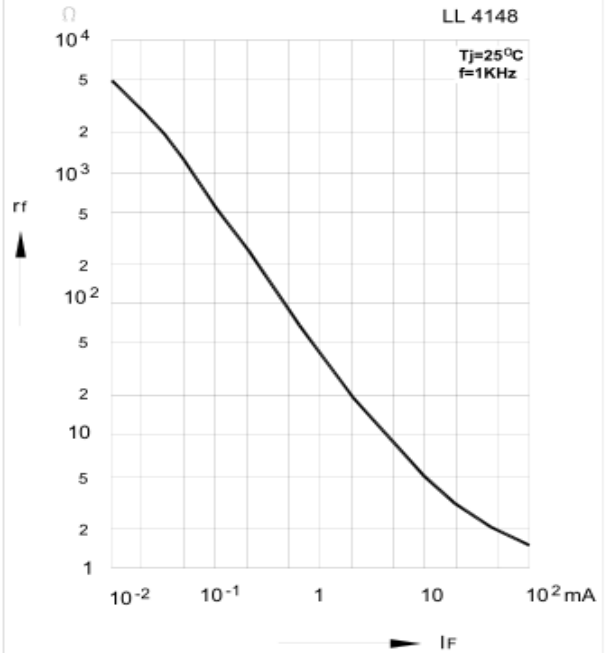
High Speed Switching Diode

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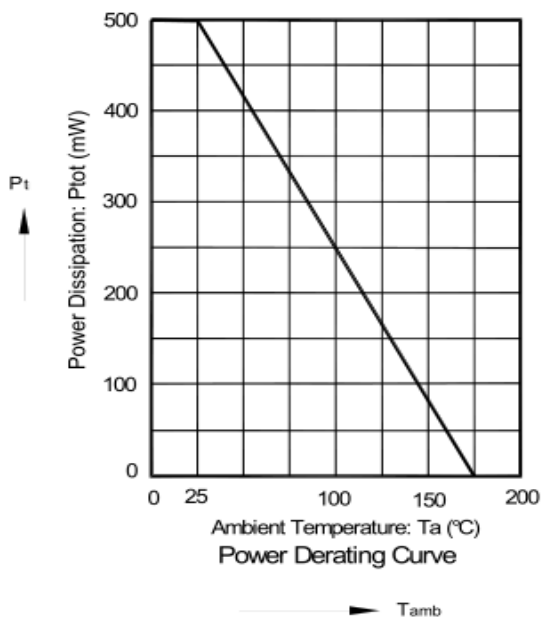
Forward characteristics



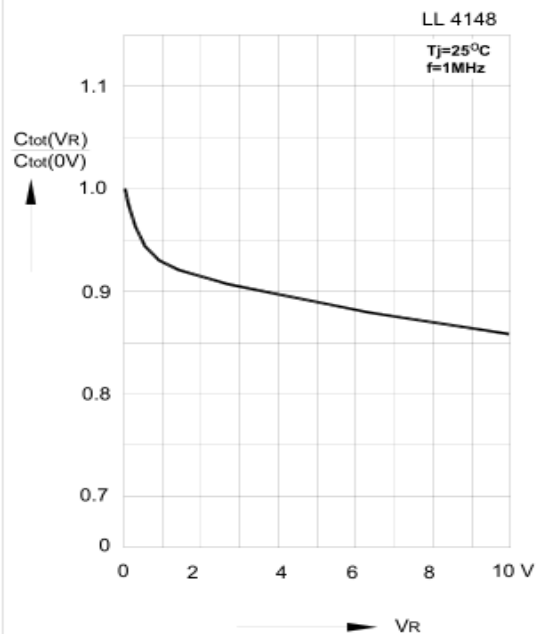
Dynamic forward resistance versus forward current



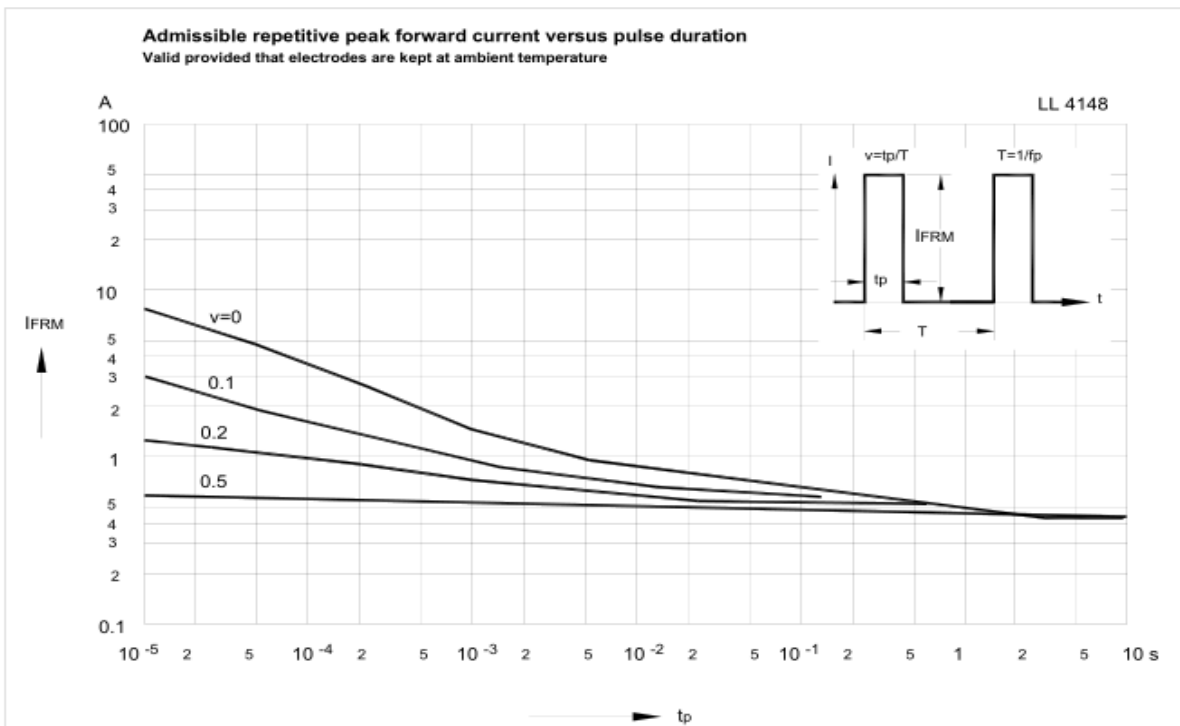
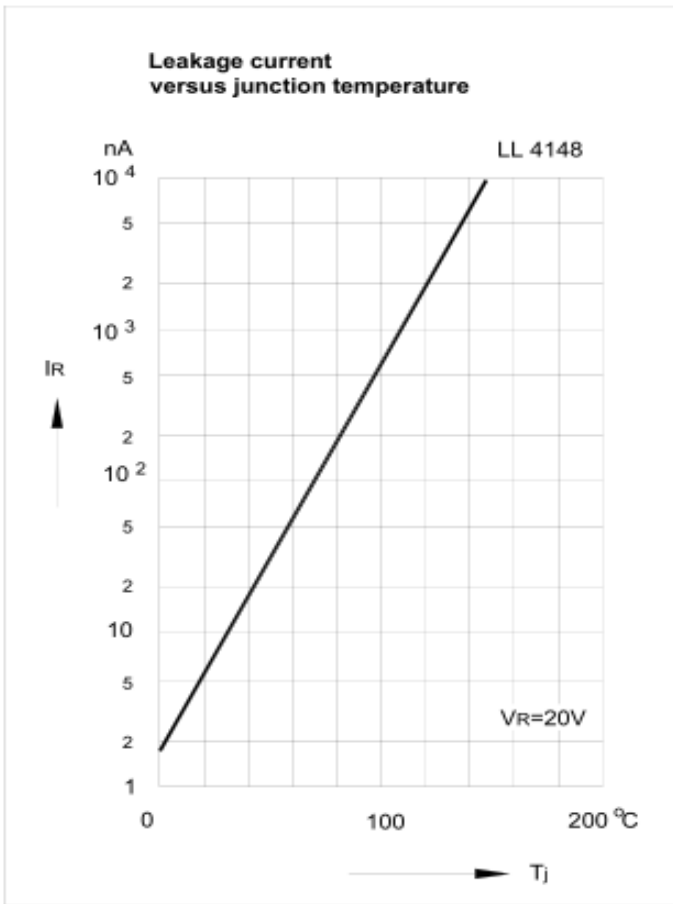
Admissible power dissipation versus ambient temperature
Valid provided that electrodes are kept at ambient temperature



Relative capacitance versus reverse voltage



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Note: Specifications are subject to change without notice. For more detail and update, please visit our website.