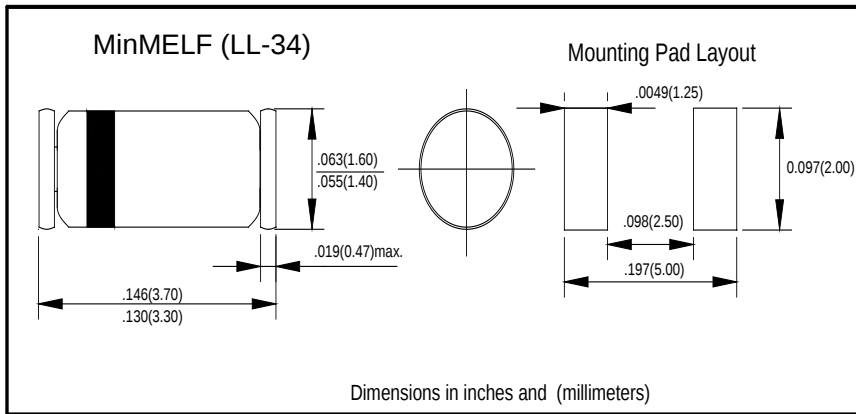


Small Signal Fast Switching Diodes



Features

- V_R 75V
- I_{FAV} 150mA

■ Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	Max
Repetitive peak reverse voltage	V_{RRM}	V		100
Reverse voltage	V_R	V		75
Peak forward surge current	I_{FSM}	A	$t_p = 1\mu s$	2
Repetitive peak forward current	I_{FRM}	mA		500
Forward continuous current	I_F	mA		300
Average forward current	I_{FAV}	mA	$V_R = 0$	150
Power dissipation	P_{tot}	mW		500 ¹⁾
Thermal resistance	R_{thJA}	°C/W	junction to ambient air	300 ¹⁾
Maximum junction temperature	T_j	°C		175
Storage temperature range	T_{stg}	°C		-65 to +175

Notes:

¹⁾ Valid provided that electrodes are kept at ambient temperature



LL4148

■Electrical Characteristics (T_a=25°C Unless otherwise specified)

Item	Symbol	Unit	Conditions	Max
Forward voltage	V _F	mV	I _F =50mA	1000
Reverse current	I _R	nA	V _R =20V	25
	I _R	μA	V _R =20V, T _j =150 °C	50
	I _R	μA	V _R =75V	5
Breakdown voltage	V _(BR)	V	I _R =100μA, t _p /T=0.01, t _p =0.3ms	100(min)
Diode capacitance	C _D	pF	V _R =0, f=1MHz, V _{HF} =50mV	4
Reverse recovery time	t _{rr}	ns	I _F = I _R =10mA, i _R =1mA	8
	t _{rr}	ns	I _F = 10mA, V _R =6V, i _R =0.1×I _R , R _L =100Ω	4

■Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
LL4148	F1	Approximate 0.47	2500	150000	7" reel

■Characteristics(Typical)

FIG1: Forward Current vs. Forward Voltage

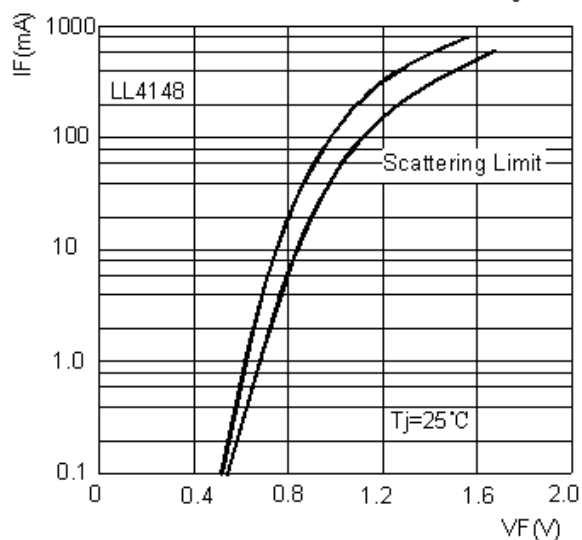
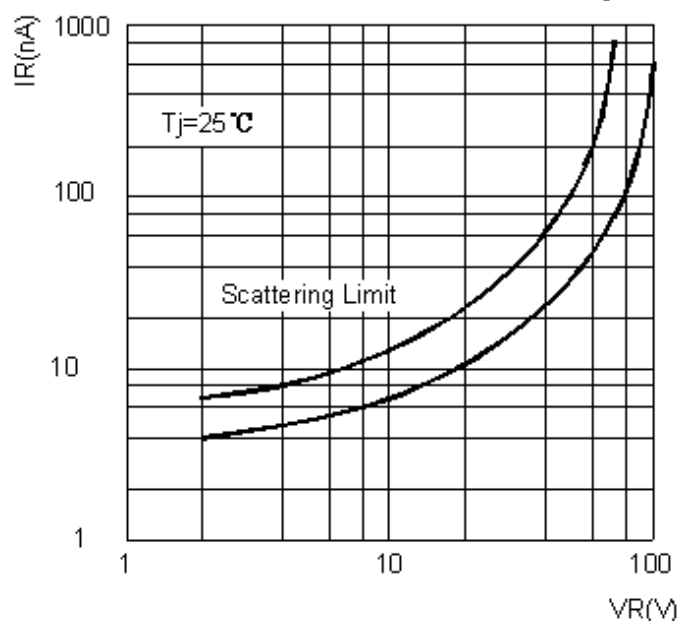
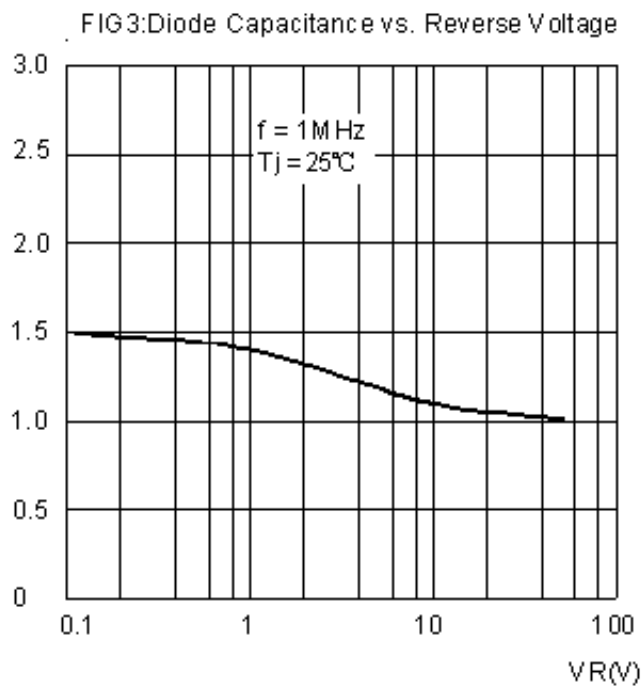


FIG2: Reverse Current vs. Reverse Voltage





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