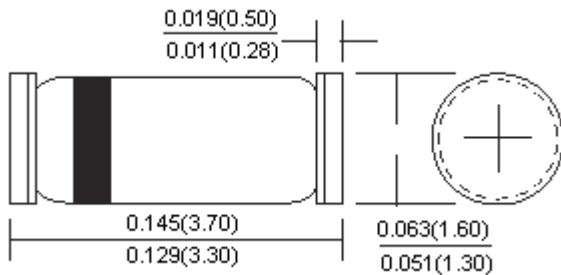


Features:

- Surge overload ratings to 2 amperes peak.
- Ideal for printed circuit board.
- Mounting position: Any

Mini Melf



Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Maximum Ratings

Type Number	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Reverse Voltage	V_R	75	
Forward Repetitive Peak Current (Note 1)	I_{FRM}	500	mA
Average Forward Current	$I_{F(AV)}$	150	
Peak Forward Surge Current $t_p = 1\mu s$	I_{FSM}	2.0	A
Power Dissipation (Note 1)	P_d	500	mW
Thermal Resistance Junction to Ambient Air (Note 1)	$R_{\theta JA}$	350	K/W
Operating and Storage Temperature Range	T_j, T_{STG}	-65 to +175	°C

Electrical Characteristics

Type Number	Symbol	Minimum	Maximum	Unit
Forward Voltage $I_F = 5.0mA$ $I_F = 50mA$	V	0.62 -	0.72 1.0	V
Peak Reverse Current $V_R = 20V$ $V_R = 20V, T_j = 150^\circ C$ $V_R = 75V$	I_R	-	25 50 5	
Junction Capacitance $V_R = 0, f = 1.0MHz$	C_j	-	4.0	pA
Reverse Recovery Time (Note 2)	t_{rr}	-	4.0	

Notes:

1. Valid provided that terminals are kept at ambient temperature.
2. Reverse recovery test conditions: $I_F = 10mA$, $V_R = 6V$, $I_{rr} = 0.1 \times I_R$, $R_L = 100\Omega$.

Ratings and Characteristic Curves

Figure 1 Forward Current Forward Voltage

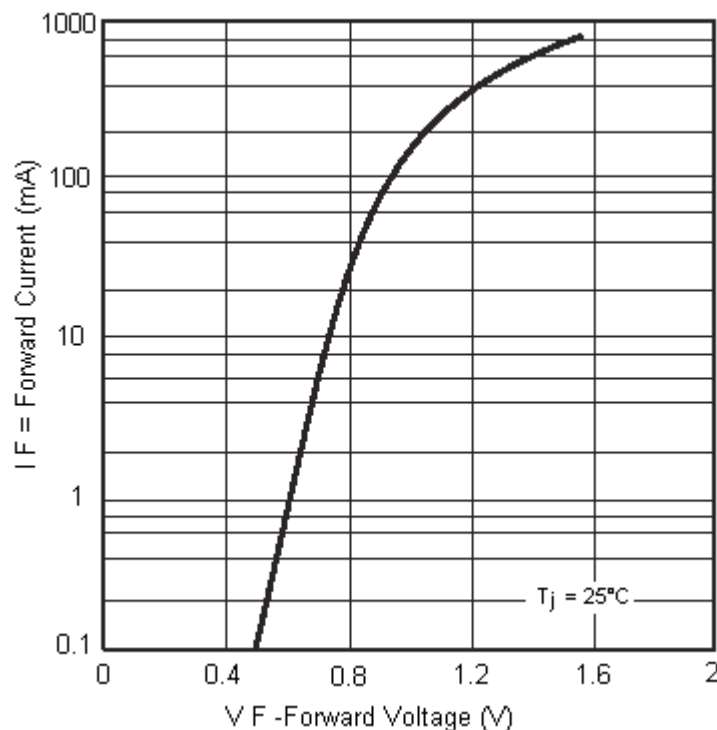


Figure 2 Reverse Current Reverse Voltage

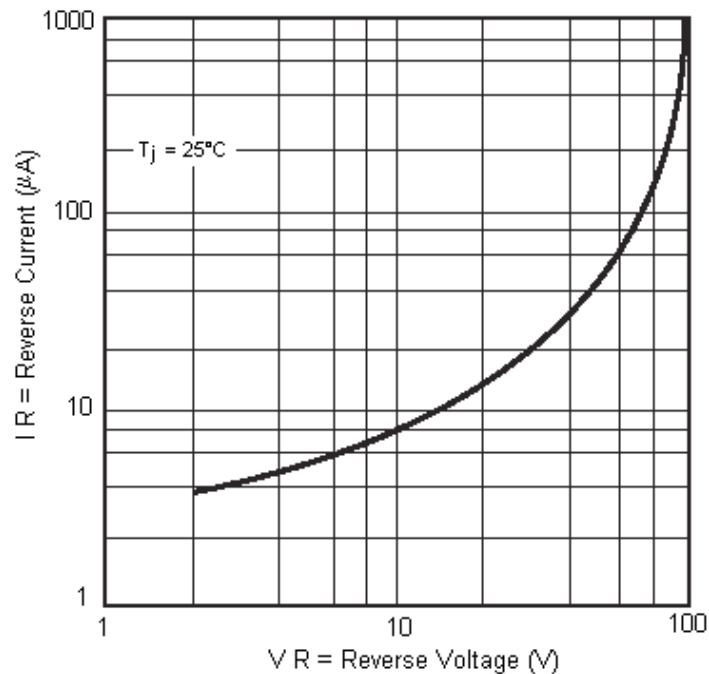
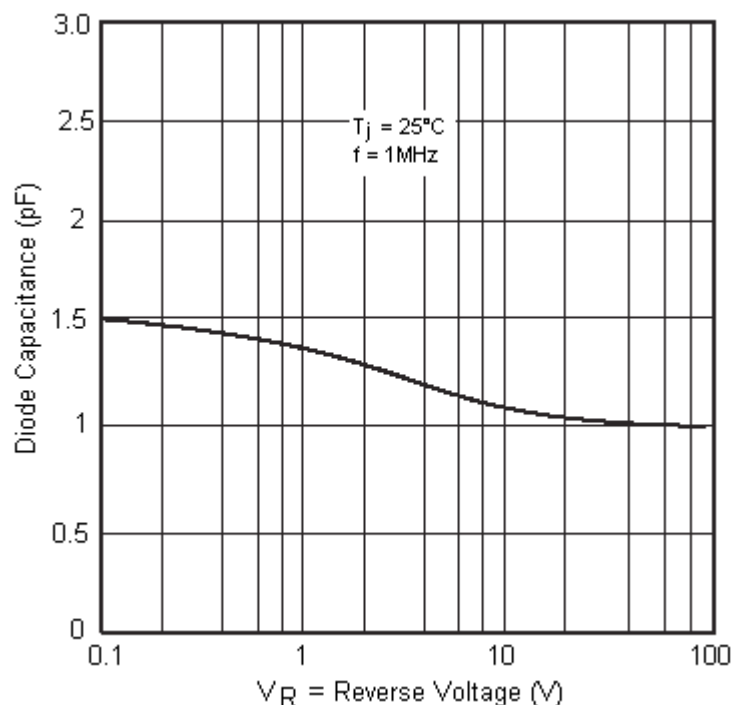


Figure 3 Diode Capacitance Reverse Voltage



LL4148

Low Power Signal Diodes



Figure 2 Reverse Current Reverse Voltage

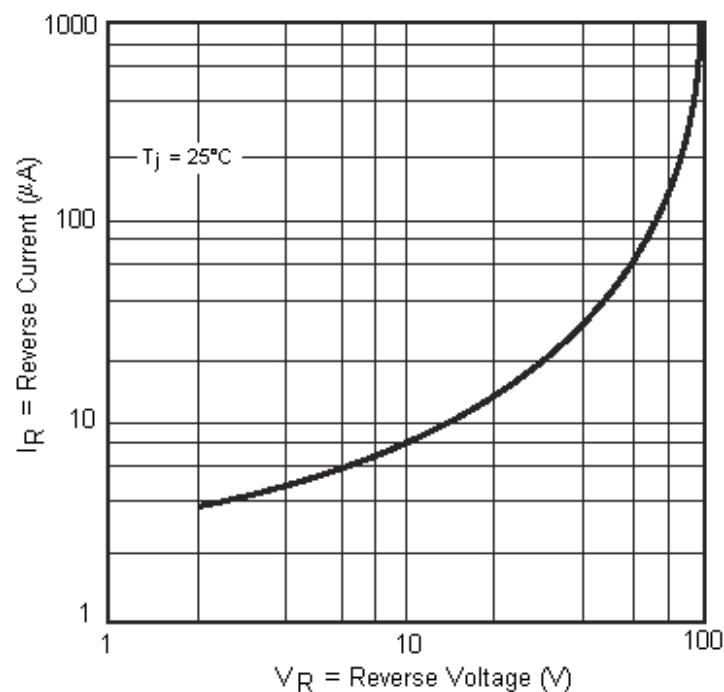
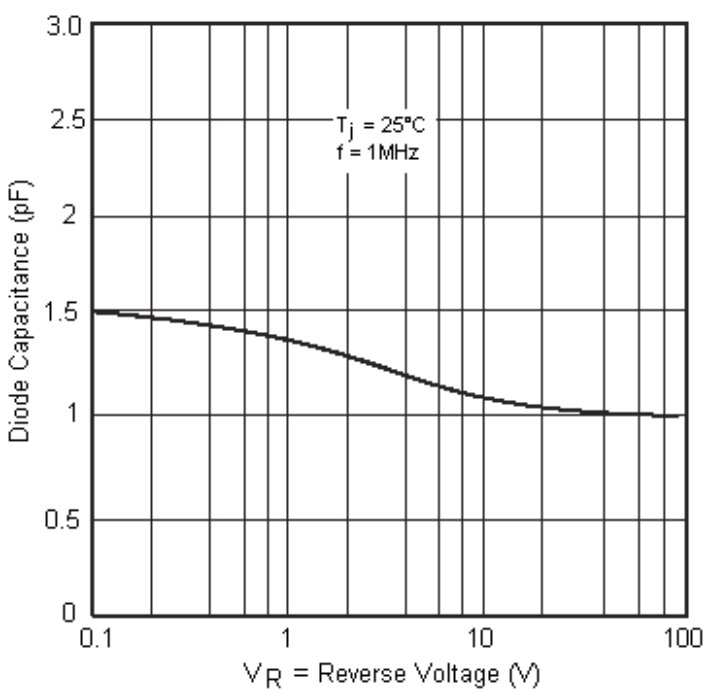


Figure 3 Diode Capacitance Reverse Voltage



Specifications

V_{rrm} (V)	V_r (V)	I_{fsm} (A)	I_{frm} (mA)	I_f (mA)	$I_{f(av)}$ (mA)	P_d (mW)	Package	Part Number
100	75	2	500	200	150	500	MiniMELF	LL4148

LL4148

Low Power Signal Diodes



Notes:

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