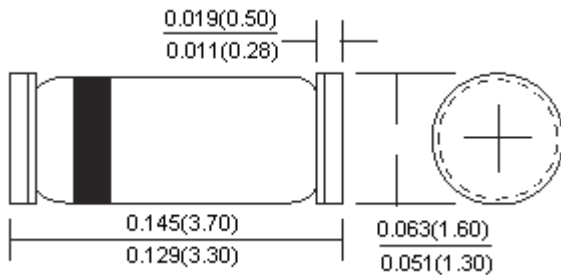


### Features:

- 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	mA
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

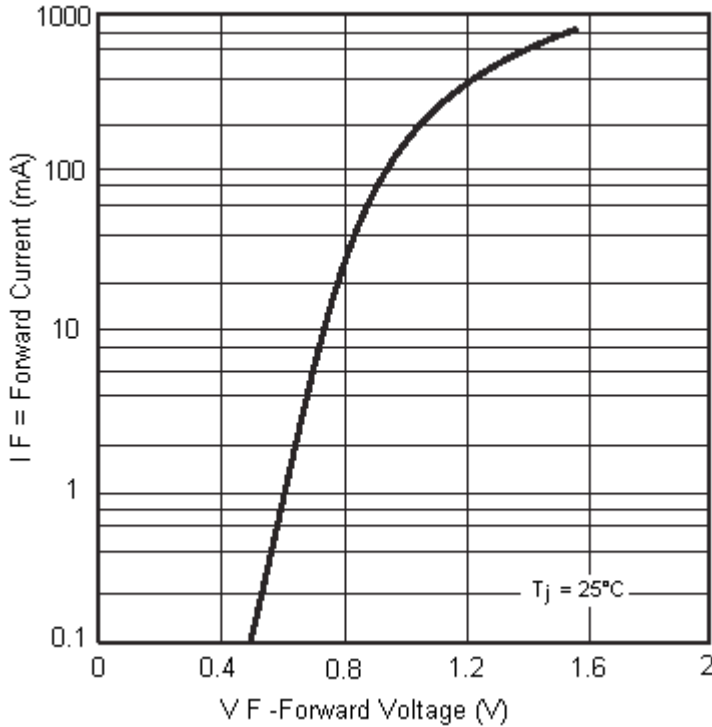


Figure 2 Reverse Current Reverse Voltage

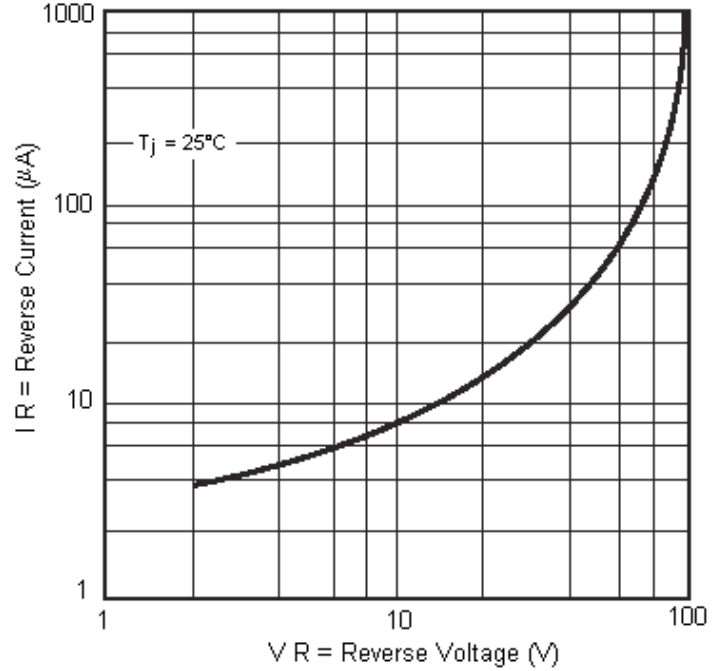
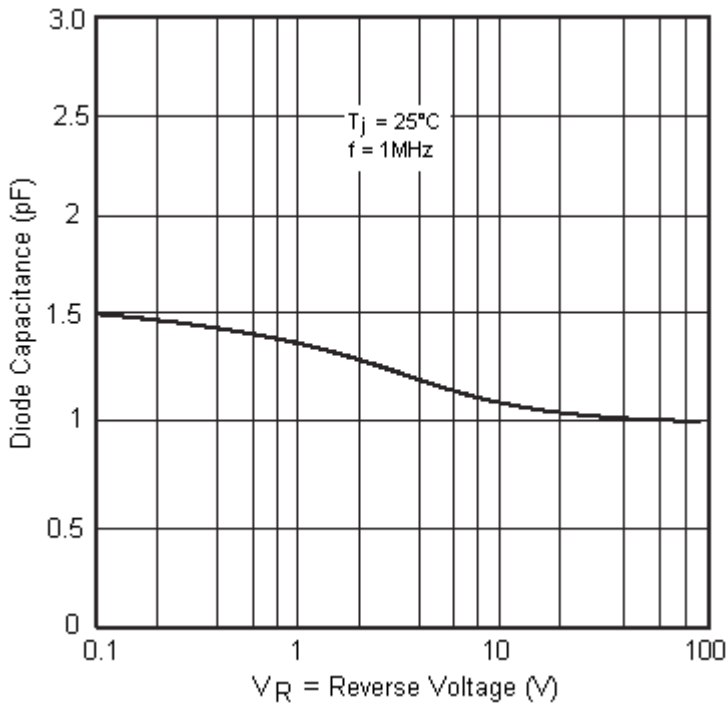


Figure 3 Diode Capacitance Reverse Voltage



# LL4148

## Low Power Signal Diodes



Figure 2 Reverse Current Reverse Voltage

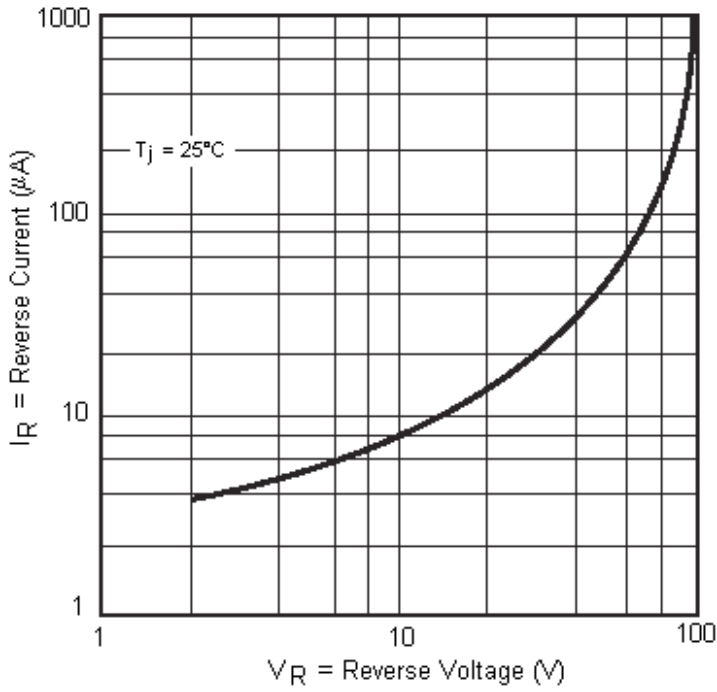
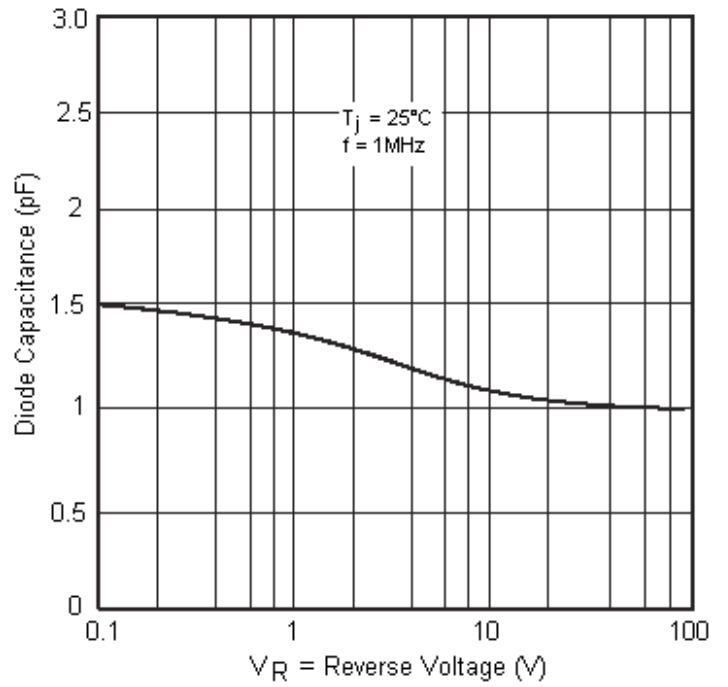


Figure 3 Diode Capacitance Reverse Voltage



### 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

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