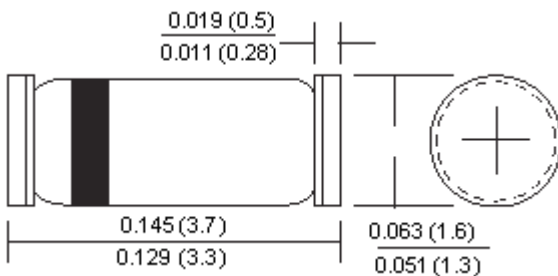




## Features:

- 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	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

# Low Power Signal Diodes



## Electrical Characteristics

Type Number	Symbol	Minimum	Maximum	Unit
Forward Voltage IF = 5 mA IF = 50 mA	V	0.62 -	0.72 1	V
Peak Reverse Current VR = 20 V VR = 20 V, Tj = 150°C VR = 75 V	IR	-	25 50 5	-
Junction Capacitance VR = 0, f = 1 MHz	Cj	-	4	mA
Reverse Recovery Time (Note 2)	t <sub>rr</sub>	-	4	-

### Notes:

1. Valid provided that terminals are kept at ambient temperature
2. Reverse recovery test conditions: I<sub>F</sub> = 10 mA, V<sub>R</sub> = 6 V, I<sub>rr</sub> = 0.1 × I<sub>R</sub>, R<sub>L</sub> = 100 Ω

## Ratings and Characteristic Curves

Figure 1 Forward Current Forward Voltage

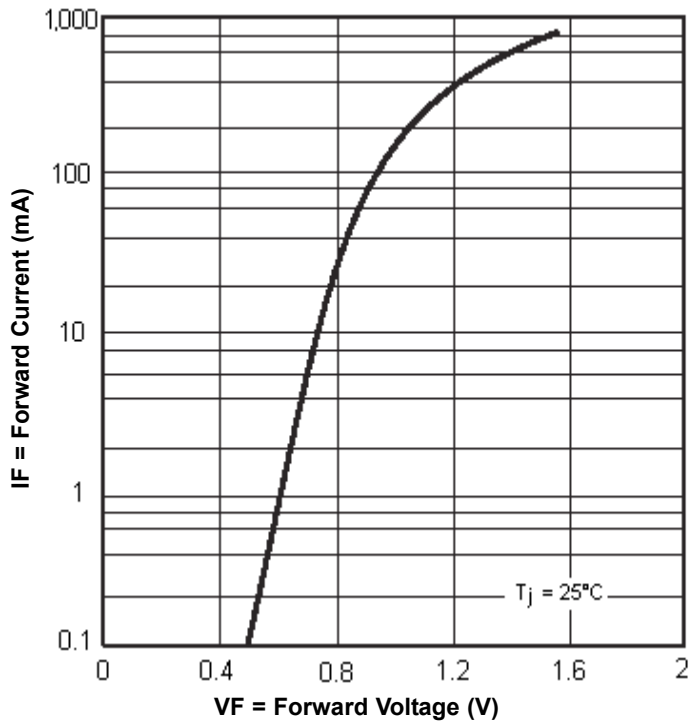
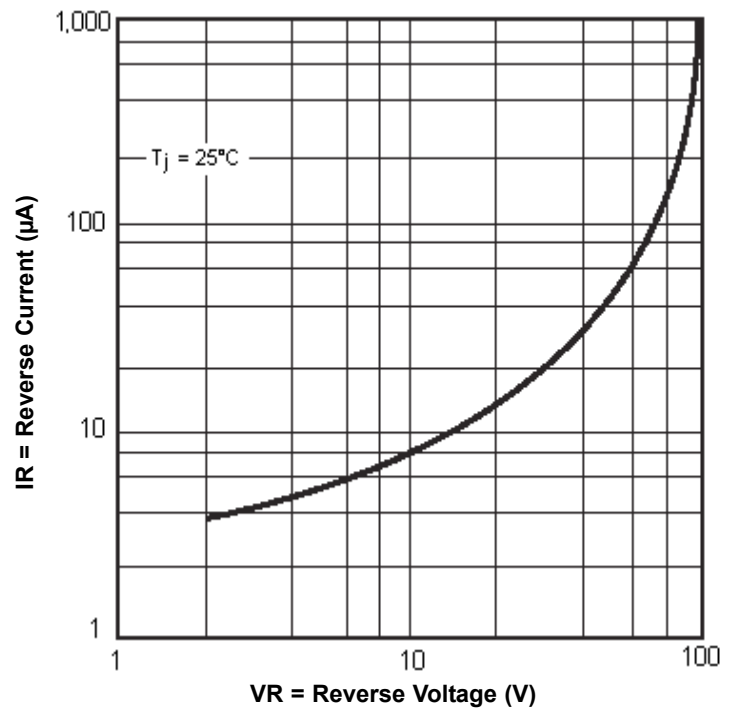


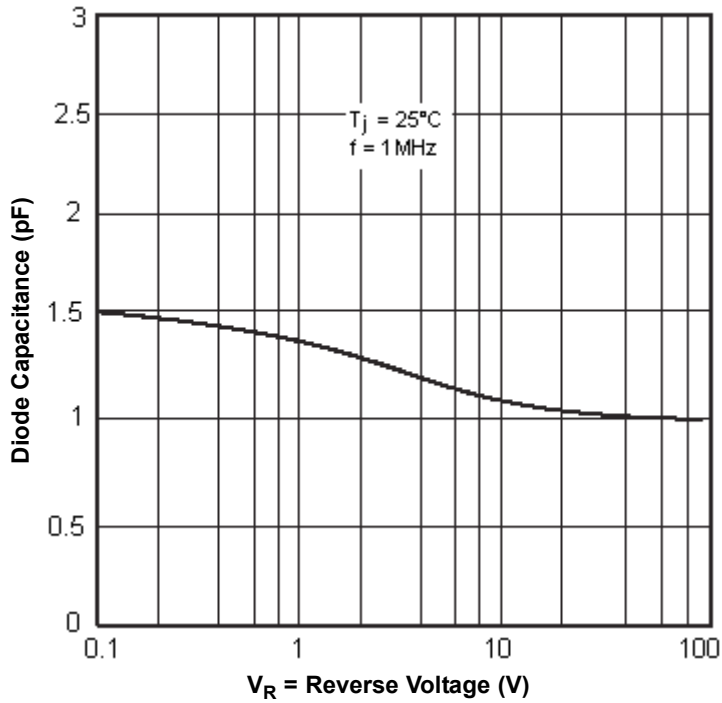
Figure 2 Reverse Current Reverse Voltage



# Low Power Signal Diodes



Figure 3 Diode Capacitance Reverse Voltage



## Specification Table

$V_{rrm}$ (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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