

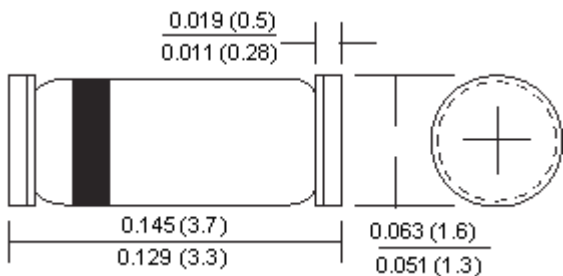
Low Power Signal Diodes



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)	ttr	-	4	-

Notes:

- 1. Valid provided that terminals are kept at ambient temperature
- 2. Reverse recovery test conditions: IF = 10 mA, VR = 6 V, Itr = 0.1 × IR, RL = 100 Ω

Ratings and Characteristic Curves

Figure 1 Forward Current Forward Voltage

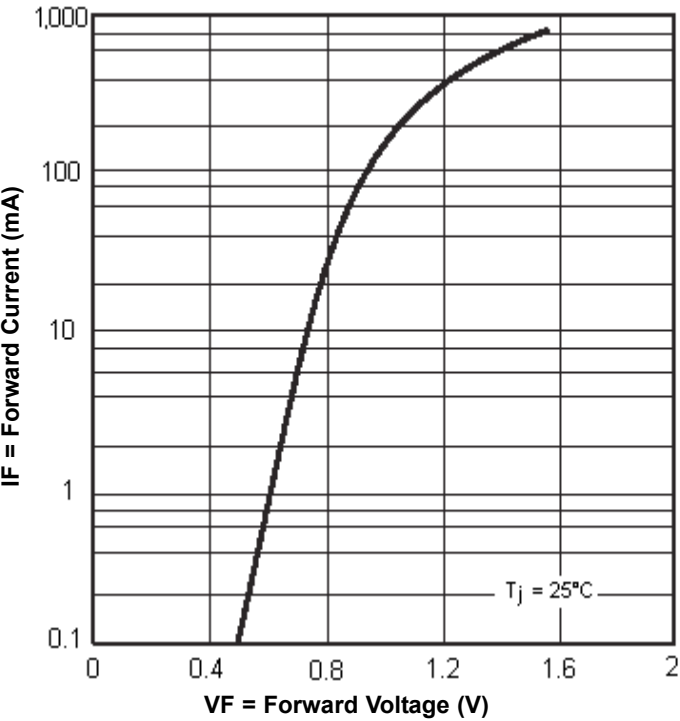


Figure 2 Reverse Current Reverse Voltage

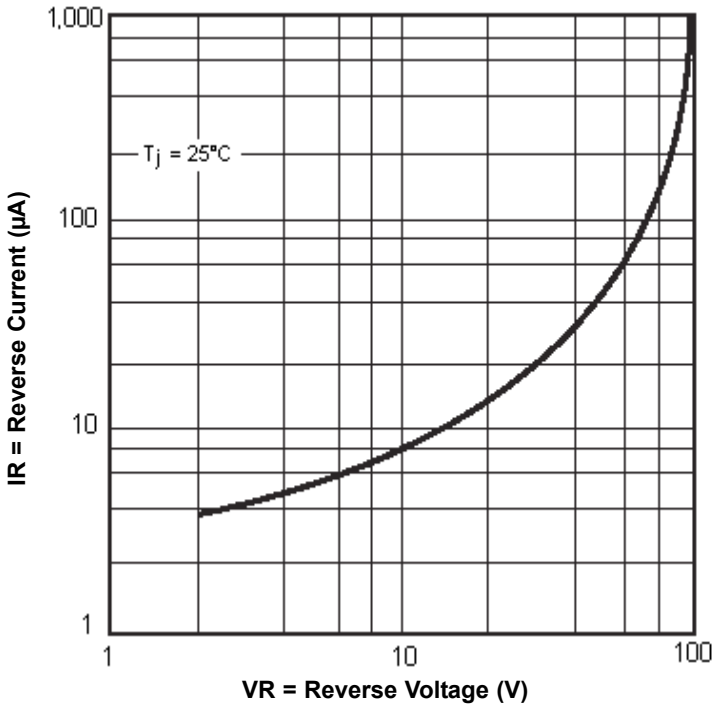
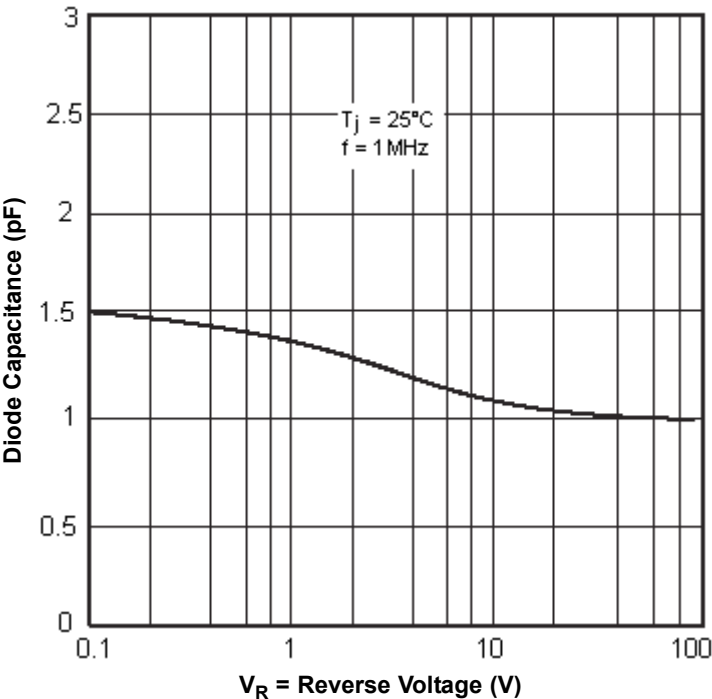


Figure 3 Diode Capacitance Reverse Voltage



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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