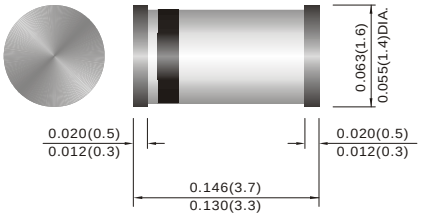
LL4448

FAST SWITCHING SURFACE MOUNT DIODES

VOLTAGE 100 Volts **POWER** 500 mW

MINI-MELF / LL34 Unit : inch(mm)



FEATURES

- Fast switching Speed.
- Surface Mount Package Ideally Suited For Automatic Insertion.
- Silicon Epitaxal Planar Construction.
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: MINI MELF
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band
- Marking: Cathode Band Only
- Weight: 0.03 grams(approx)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_J =25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNITS
Peak Reverse Voltage	V_{RM}	100	V
Maximum DC Blocking Voltage	V_{DC}	75	V
Maximum Average Forward Current at T_A=25°C And f ≥50Hz	I_{AV}	150	mA
Surge Forward Current at t < 1s and T_J= =25°C	I_{FSM}	500	mA
Power Dissipation at T_A= 25°C	P_{TOT}	500	mW
Maximum Forward Voltage at I_F =100mA	V_F	1.0	V
Maximum Leakage Current at V_R=20V at V_R=20V ,T_J= 150°C	I_R	 30 50	 nA µA
Maximum Capacitance at V_F =V_R=0	C_J	4	pF
Maximum Reverse Recovery Time From I_F = -I_R =10mA to I_{RR}= -1mA ,V_R=6V R_L=100 Ω	t_{rr}	4	ns
Typical Maximum Thermal Resistance	$R_{\theta JA}$	350	°C / W
Operating Junction Temperature and Storage Temperature Range	T_J,T_{STG}	-65 to +175	°C

NOTE:

1. CJ at V_R=0, f=1MHZ
2. From I_F=10mA to I_R=1mA, V_R=6Volts, R_L=100Ω

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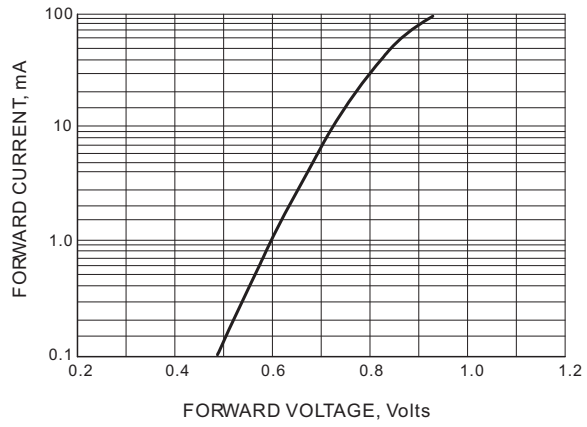
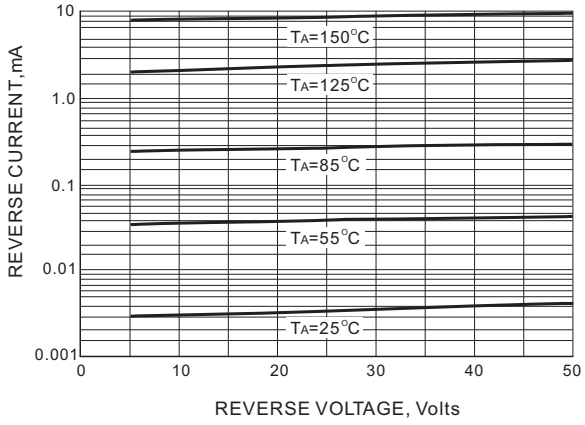
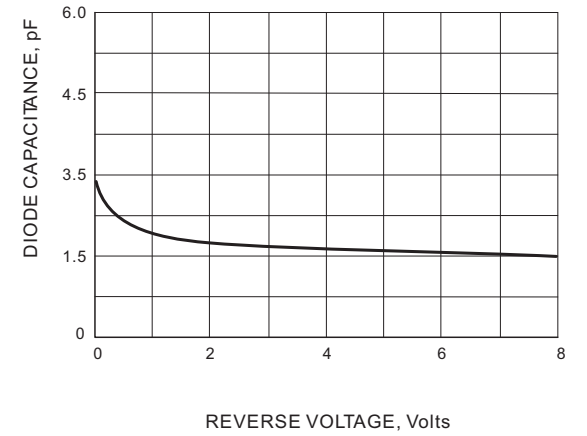


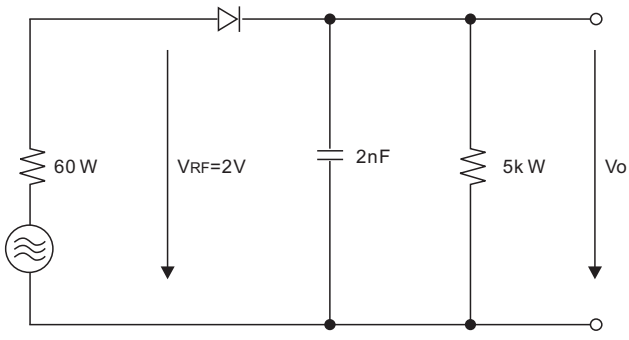
FORWARD VOLTAGE



LEAKAGE CURRENT



TYPICAL CAPATICANCE



RECTIFICATION EFFCIENCY MEASUREMENT CIRCUIT

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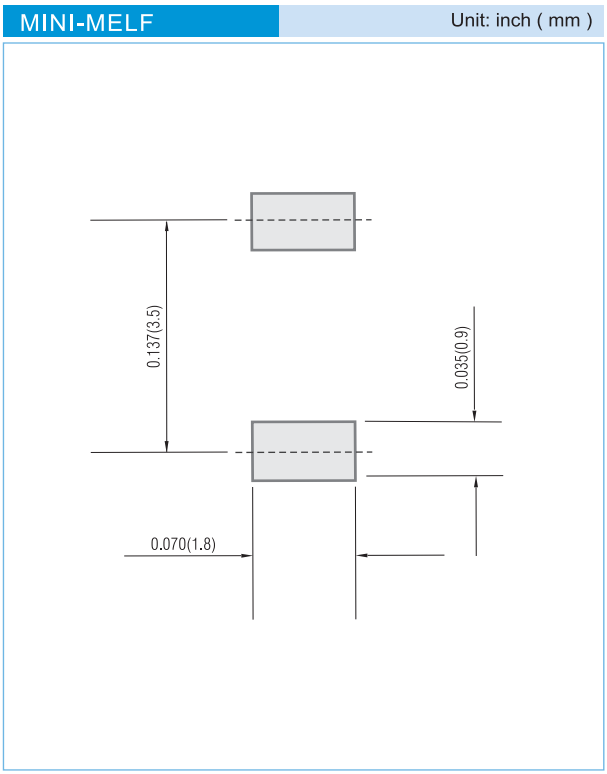
MOUNTING PAD LAYOUT

MINI-MELF Unit: inch (mm)



ORDER INFORMATION

- Packing information

  T/R - 10K per 13" plastic Reel

  T/R - 2.5K per 7" plastic Reel

LEGAL STATEMENT