



LL4448

FAST SWITCHING SURFACE MOUNT DIODES

VOLTAGE

100 Volts

POWER

500 mW

FEATURES

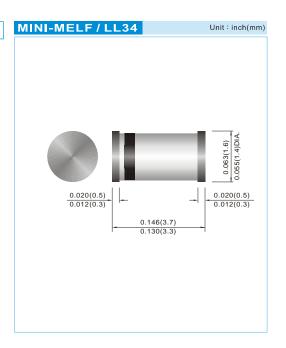
- Fast switching Speed.
- Surface Mount Package Ideally Suited For Automatic Insertion.
- Silicon Epitaxal Planar Construction.
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

• Case: MINI MELF

• Terminals: Solderable per MIL-STD-750, Method 2026

Polarity: Cathode BandMarking: Cathode Band OnlyWeight: 0.03 grams(approx)



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

PARAMETER	SYMBOL	VALUE	UNITS
Peak Reverse Voltage	VRM	100	٧
Maximum DC Blocking Voltage	VDC	75	V
Maximum Average Forward Current at Ta=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	Ртот	500	mW
Maximum Forward Voltage at I _F =100mA	VF	1.0	V
Maximum Leakage Current at V_R =20V at V_R =20V , T_J = 150°C	lr	30 50	nA μA
Maximum Capacitance at $V_F = V_R = 0$	C _J	4	pF
Maximum Reverse Recovery Time From $I_F = -I_R = 10 \text{mA to } I_{RR} = -1 \text{mA}, V_R = 6 \text{V } R_L = 100 \ \Omega$	t _{rr}	4	ns
Typical Maximum Thermal Resistance	R _{eJA}	350	°C / W
Operating Junction Temperature and Storage Temperature Range	ТЈ,Тѕтс	-65 to +175	°C

NOTE:

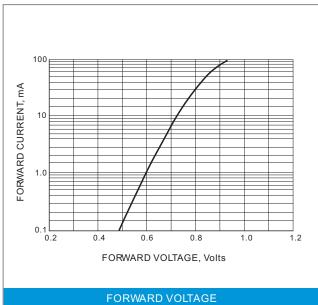
- 1. CJ at VR=0, f=1MHZ
- 2. From IF=10mA to IR=1mA, VR=6Volts, RL=100 $\!\Omega$

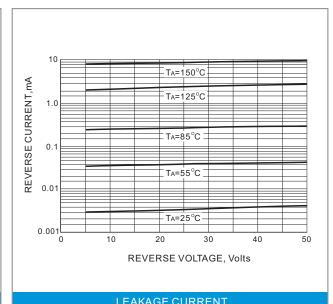
STAD-FEB.17.2009 PAGE . 1

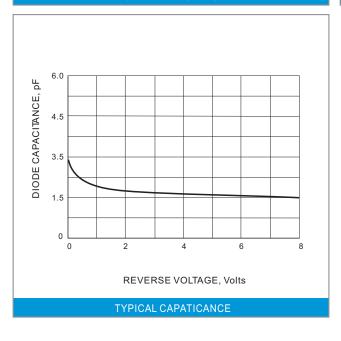


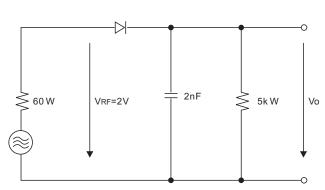


LL4448









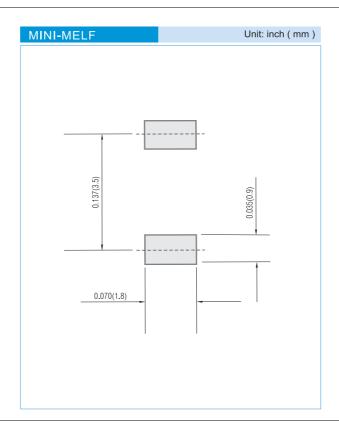
RECTIFICATION EFFCIENCY MEASUREMENT CIRCUIT





LL4448

MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 10K per 13" plastic Reel

T/R - 2.5K per 7" plastic Reel

LEGAL STATEMENT

Copyright PanJit International, Inc 2011

The information presented in this document is believed to be accurate and reliable. The specifications and information herein are subject to change without notice. Pan Jit makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose. Pan Jit products are not authorized for use in life support devices or systems. Pan Jit does not convey any license under its patent rights or rights of others.