





FAST SWITCHING SURFACE MOUNT DIODES

VOLTAGE 100 Volts POWER 500 mWatts

FEATURES

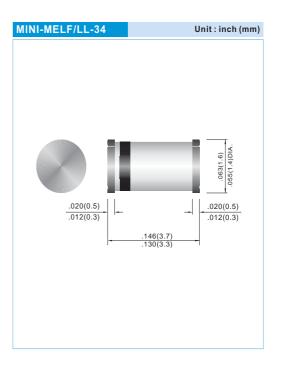
- Fast switching Speed.
- Surface Mount Package Ideally Suited For Automatic Insertion.
- Silicon Epitaxal Planar Construction.
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- · Case: Mini Melf, Glass
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band
- Marking: Cathode Band Only
- Weight: 0.03 gramsPacking information

T/R - 2.5K per 7" plastic reel

T/R - 10K per 13" plastic reel



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

PARAMETER	SYMBOL	LL4148	UNITS
Peak Reverse Voltage	V _{RM}	100	V
Maximum Average Forward Current at Ta=25 °C And f≥50Hz	I _{F(AV)}	150	mA
Surge Forward Current at t < 1s and Tj= =25 °C	I _{FSM}	500	mA
Power Dissipation at Tamb= 25 °C	P _{TOT}	500	mW
Maximum Forward Voltage at I _F =10mA	V _F	1.0	V
Maximum Leakage Current at V_R =20V at V_R =75V at V_R =20V , T_J = 150°C at V_R =100V	I _R	25 5 50 100	nA μA μA μA
Maximum Capacitance at V _F = V _R =0	C _J	4	pF
Maximum Reverse Recovery Time From $I_F = -I_R = 10 \text{mA to } I_{RR} = -1 \text{mA} \text{ , } V_R = 6 \text{V R}_L = 100 \Omega$	t _{rr}	4	ns
Typical Thermal Resistance	R _{eJA}	300	°C/W
Junction Temperature and Storage Temperature Range	T _J ,T _s	-65 to +175	°C

NOTE:

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





LL4148

RATING AND CHARACTERISTIC CURVES

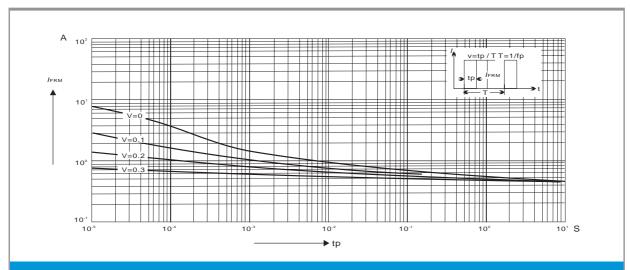


Fig. 1 ADMISSIBLE REPETITIVE PEAK FORWARD CURRENT VERSUS PULSE DURATION

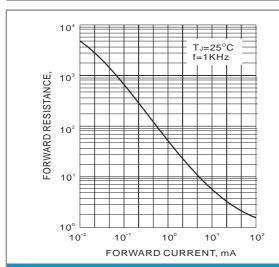


Fig.2-DYNAMIC FORWARD RESISTANCE VERSUS FORWARD CURRENT

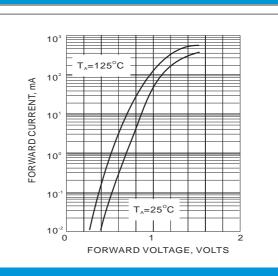


Fig.3 FORWARD CHARACTERISTICS

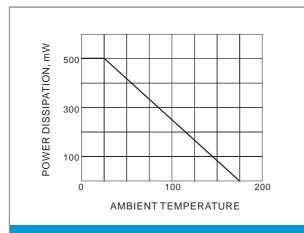


Fig.4 DERATING CURVE

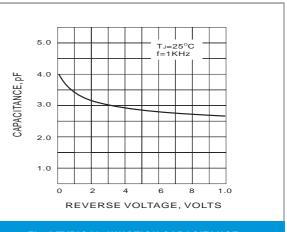


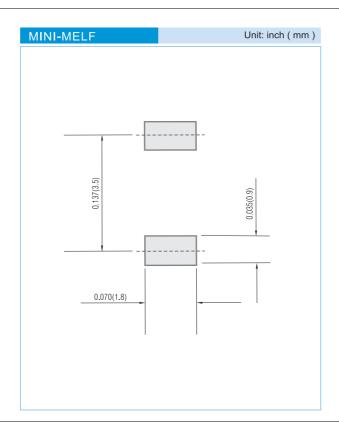
Fig.5 TYPICAL JUNCTION CAPACITANCE







MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 10K per 13" plastic Reel

T/R - 2.5K per 7" plastic Reel







For example:



Packing Code XX			Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
T/B	A	N/A	0	HF	0	serial number
T/R	R	7"	1	RoHS	1	serial number
B/P	В	13"	2			
T/P	Т	26mm	X			
TRR	S	52mm	Υ			
TRL	L	PBCU	U			
FORMING	F	PBCD	D			

Part No_packing code_Version

LL4148_R1_10001 LL4148_R2_10001





LL4148

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