



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.
- Lead free in comply with EU RoHS 2002/95/EC directives.

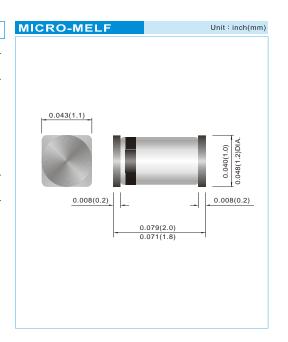
MECHANICAL DATA

• Case: MICRO, MELF

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

• Polarity: Color band denotes cathode end

• Marking: Cathode Band Only • Weight: 0.011 grams(approx)



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

PARAMETER	SYMBOL	MCL4448	UNITS
Peak Reverse Voltage	Vrm	100	V
Maximum DC Blocking Voltage	VDC	75	V
Maximum Average Forward Current at T _A =25°C And f ≥50Hz	lav	150	mA
Surge Forward Current at t < 1s and T _J =25°C	Iгsм	500	mA
Power Dissipation at T _A = 25°C	Ртот	500	mW
Maximum Forward Voltage at l⊧=100mA	VF	1	V
Maximum Leakage Current at VR=20V at VR=20V ,TJ=150°C	l _R	25 50	nA μA
Maximum Capacitance at V _F =V _R =0	Сл	4	pF
Maximum Reverse Recovery Time From F =-k=10mA to kr=-1mA ,Vr=6V RL=100Ω	t _{rr}	4	ns
Typical Maximum Thermal Resistance	Roja	350	°C / W
Junction Temperature and Storage Temperature Range	TJ,Ts	-65 to +175	°C

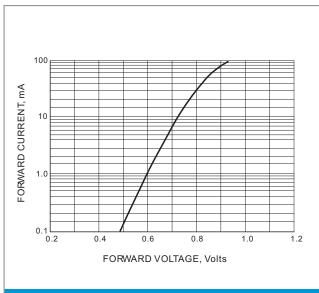
NOTE:

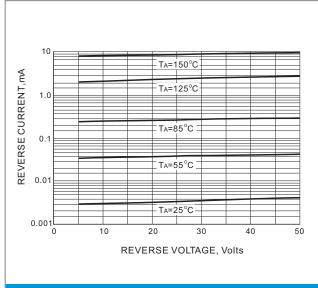
- 1. CJ at VR=0, f=1MHZ
- 2. From IF=10mA to IR=1mA, VR=6Volts, RL=100 Ω

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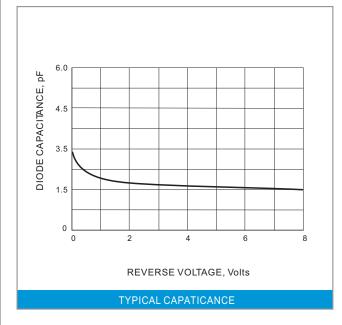


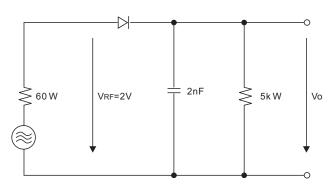




FORWARD VOLTAGE





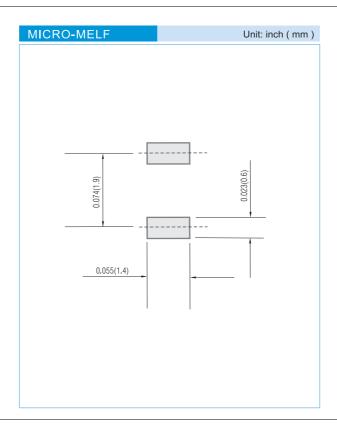


RECTIFICATION EFFCIENCY MEASUREMENT CIRCUIT





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 10K per 13" plastic Reel

T/R - 2.5K per 7" plastic Reel





Part No_packing code_Version

MCL4448_R1_10001 MCL4448_R2_10001

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	
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number	
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number	
Bulk Packing (B/P)	В	13"	2				
Tube Packing (T/P)	Т	26mm	X				
Tape and Reel (Right Oriented) (TRR)	8	52mm	Y				
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U				
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D				





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