

MCL4150

FAST SWITCHING SURFACE MOUNT DIODES

VOLTAGE 50 Volts **POWER** 500 mWatts

MICRO-MELF Unit : inch (mm)

FEATURES

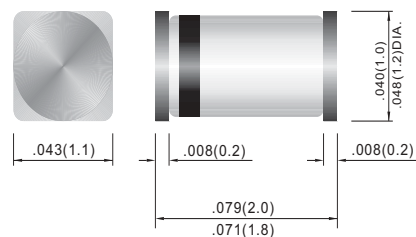
- Fast switching Speed.
- Surface Mount Package Ideally Suited For Automatic Insertion.
- Silicon Epitaxial Planar Construction.
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: QUADRD Melf, Glass
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band
- Marking: Cathode Band Only
- Weight: 0.011 grams
- Packing information

T/R - 2.5K per 7" plastic reel

T/R - 10K per 13" plastic reel



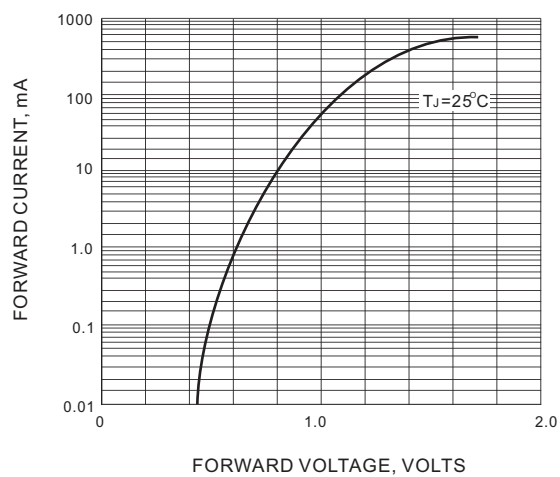
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_J = 25°C unless otherwise noted)

PARAMETER	SYMBOL	MCL4150	UNITS
Reverse Voltage	V _R	50	V
Peak Reverse Voltage	V _{RM}	50	V
RMS Voltage	V _{RMS}	35	V
Maximum Average Forward Current at T _A = 25°C And f ≥ 50Hz	I _{F(AV)}	200	mA
Surge Forward Current at t < 1s and T _J = 25 °C	I _{FSM}	500	mA
Power Dissipation at Tamb = 25 °C	P _{TOT}	500	mW
Maximum Forward Voltage at I _F = 200mA	V _F	1.0	V
Maximum Leakage Current at V _R = 50V	I _R	0.1	μA
Maximum Capacitance (Note 1)	C _J	4	pF
Maximum Reverse Recovery Time (Note 2)	t _{rr}	4	ns
Typical Thermal Resistance	R _{θJA}	350	°C / W
Junction Temperature and Storage Temperature Range	T _J , T _S	-65 to +175	°C

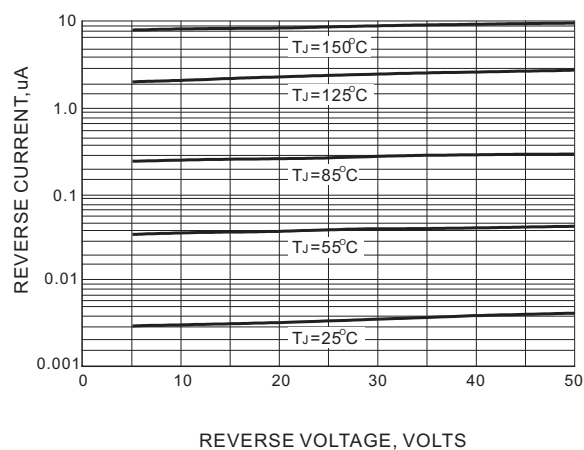
NOTE:

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

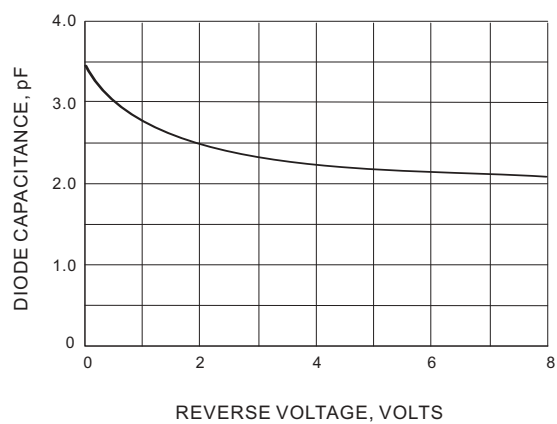
MCL4150



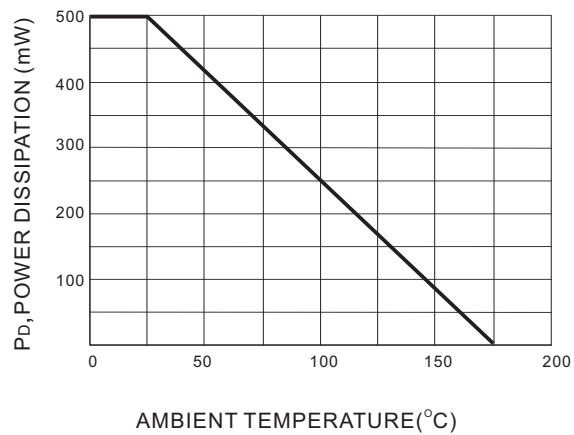
FORWARD VOLTAGE



LEAKAGE CURRENT



TYPICAL CAPATICANCE



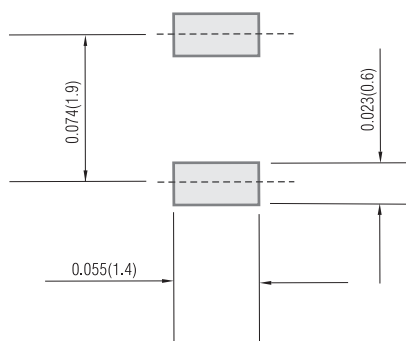
POWER DERATING

MCL4150

MOUNTING PAD LAYOUT

MICRO-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

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