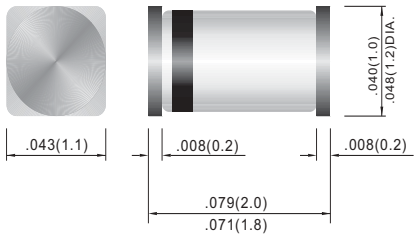
GRANDE.LTD.

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 Epitaxal 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

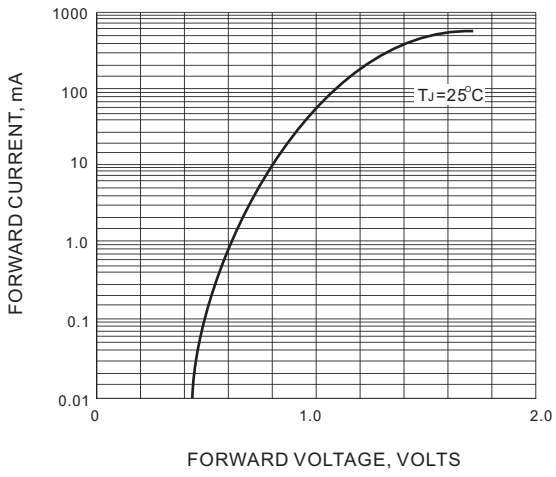
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_J =25°C unless otherwise noted)

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
Typcal Thermal Resistance	$R_{\theta JA}$	350	°C / W
Junction Temperature and Storage Temperature Range	T_J,T_S	-65 to +175	°C

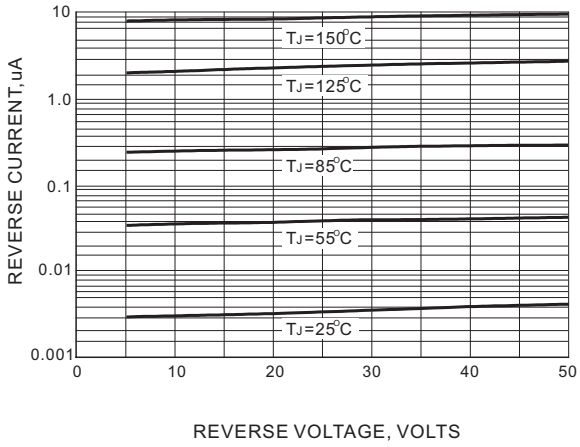
NOTE:

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

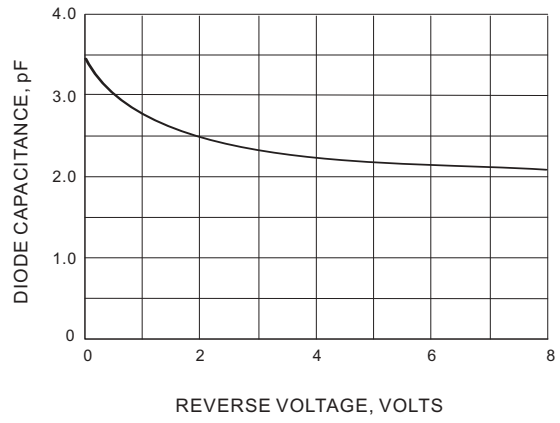
MCL4150



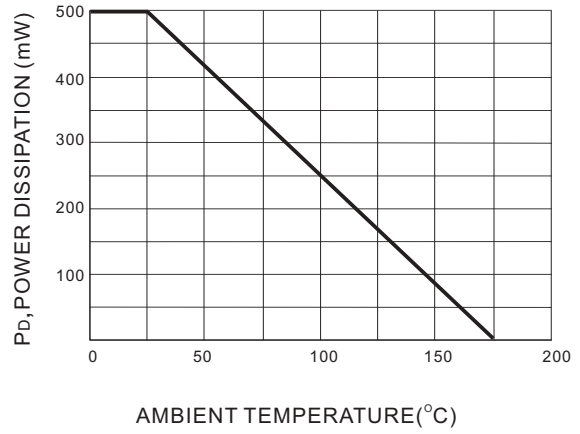
FORWARD VOLTAGE



LEAKAGE CURRENT



TYPICAL CAPATICANCE

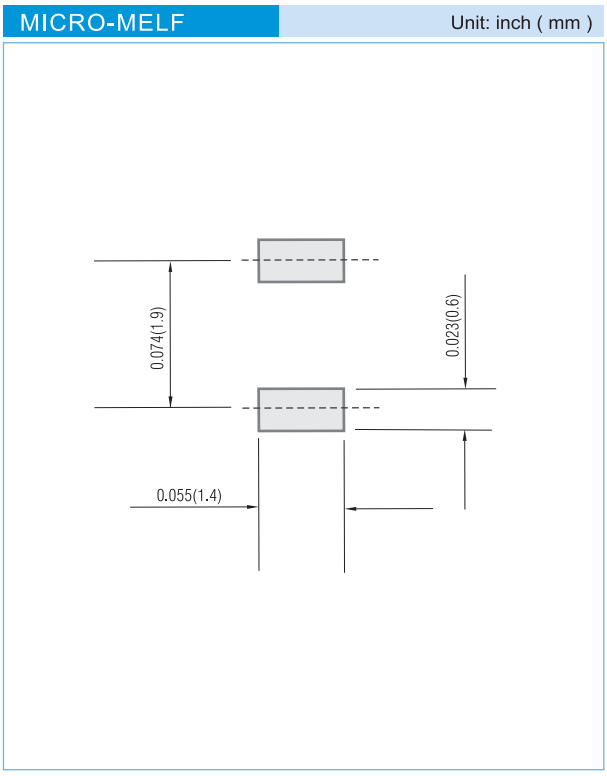


POWER DERATING

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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