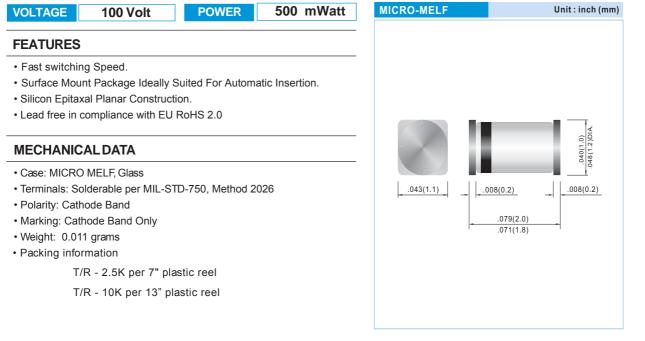


FAST SWITCHING SURFACE MOUNT DIODES



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

PARAMETER	SYMBOL	MCL4148	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 ,TJ= 150°C	I _R	25 5 50	nA μA μA
Maximum Capacitance at V _F =V _R =0	C	4	pF
Maximum Reverse Recovery Time From $I_F = -I_R = 10$ mA to $I_{RR} = -1$ mA , $V_R = 6$ V R _L = 100 Ω	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

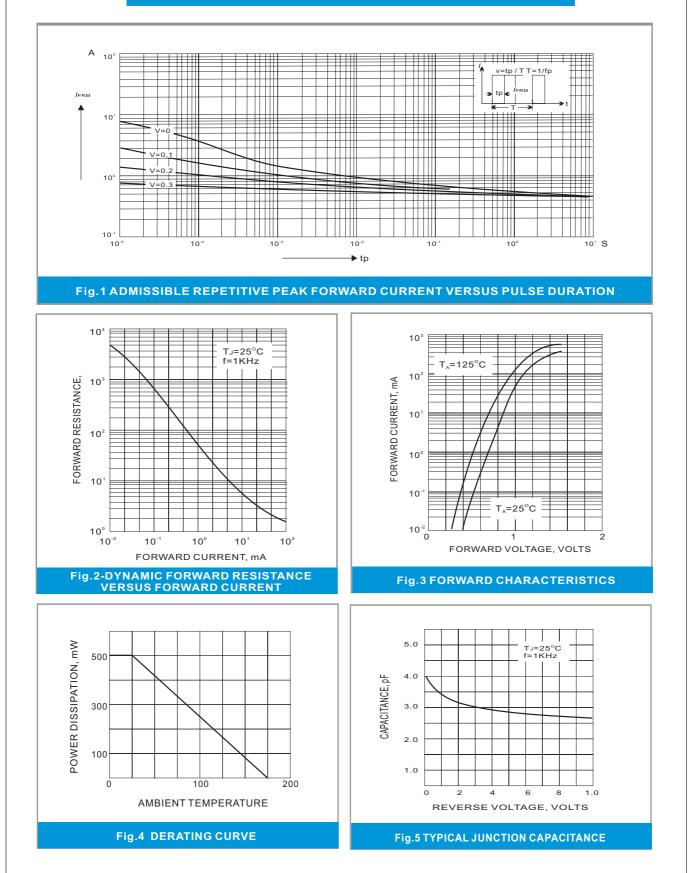
NOTE:

1. CJ at VR=0, f=1MHZ

2. From IF=10mA to IR=1mA, VR=6Volts, RL=100 Ω







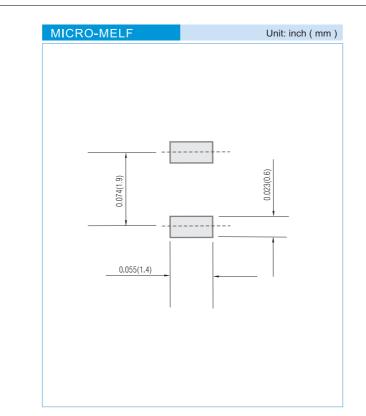
RATING AND CHARACTERISTIC CURVES

MCL4148



MCL4148

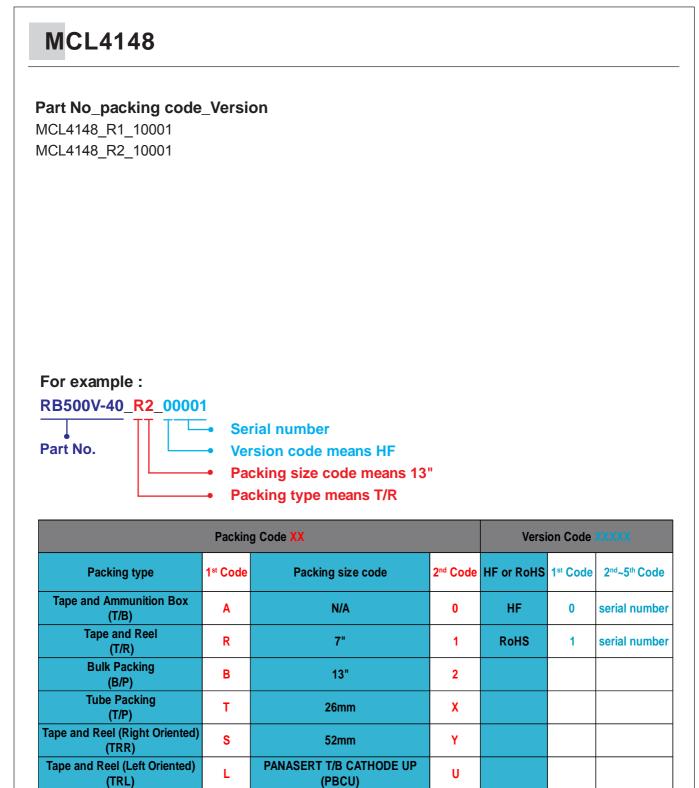
MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
- T/R 10K per 13" plastic Reel
- T/R 2.5K per 7" plastic Reel





PANASERT T/B CATHODE DOWN

(PBCD)

D

F

FORMING



MCL4148

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