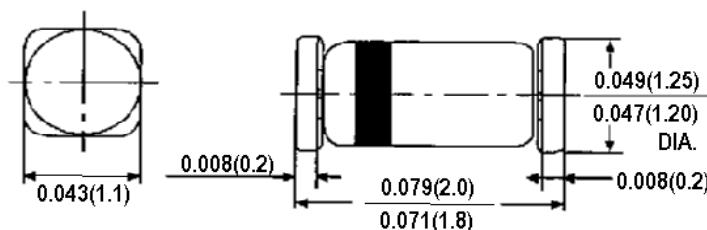


MCL4148 Micro MELF SWITCHING Diode

MICRO MELF (Molded Glass)

Unit: inch (mm)



Absolute Maximum Ratings

	Symbol	Value	UNIT
Reverse Voltage	V _R	75	V
Peak Reverse Voltage	V _{RM}	100	V
Rectifier Current (Average) Half Wave Rectification w/Resist Load at Tamb=25degC and F>/ 50Hz	I _O	150	mA
Surge Forward Current @ t<1s and T _j =25degC	I _{FSM}	500	mA
Power Dissipation at Tamb= 25degC	P _{tot}	500	mW
Junction Temperature	T _j	175	°C
Storage Temperature Range	T _s	-65 to +175	°C

Characteristics at T_j=25 °C

	Symbol	Min	Max	Unit
Forward Voltage at I _F = 10 mA	V _F	-	1	V
Leakage Current at V _R = 20V	I _R	-	25	nA
at V _R = 75V	I _R	-	5	uA
at V _R = 20V, T _j = 150 °C	I _R	-	50	uA
Reverse Breakdown Voltage tested with 100uS Pulses	V _{(BR)R}	100	-	V
Capacitance at V _F =V _R = 0	C _{tot}	-	4	pF
Voltage Rise when Switching On Tested with 50mA Forward Pulses Tp=0.1us,RiseTime<30ns,fp=5~100kHz	V _{fr}	-	2.5	V
Reverse Recovery Time From IF=-IR=10mA to IRR=-1mA VR=6V RL=100 ohms	trr	-	4	ns
Thermal Resistance Function to Ambient Air	R _{thA}	-	0.35	K/mW
Rectification Efficiency at f=100MHZ, V _{RF} = 2V	nv	0.45	-	-