

# POLYMER PTC RESETTABLE FUSE

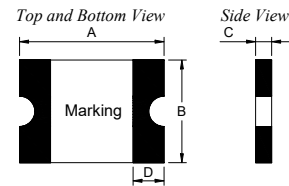


Part Number: TLC-USMD010/50

## 1、Physical Dimensions(size of 1210)

Unit:mm

Part Number	A		B		C		D	Marking
	Min	Max	Min	Max	Min	Max	Min	
TLC-USMD010/50	3.00	3.43	2.35	2.80	0.80	1.20	0.30	T01



## 2、Electrical Characteristics

Part Number	I <sub>H</sub> (A)	I <sub>T</sub> (A)	V <sub>max</sub> (V)	I <sub>max</sub> (A)	T <sub>trip</sub> (Max time to trip)		Pd <sub>typ</sub> (W)	R <sub>min</sub> (Ω)	R1 <sub>max</sub> (Ω)
					Current(A)	Time(S)			
TLC-USMD010/50	0.10	0.30	50	10	0.50	0.60	0.60	0.80	15.00

I<sub>H</sub>: Holding Current: maximum current at which the device will not trip in 25°C still air.

I<sub>T</sub>: Tripping Current minimum current at which the device will trip in 25°C still air.

V<sub>max</sub>: Maximum voltage device can withstand without damage at rated current.

I<sub>max</sub>: Maximum fault current device can withstand without damage at rated voltage.

T<sub>trip</sub>: Maximum time to trip(s) at assigned current.

Pd<sub>typ</sub>: Rated working power.

R<sub>min</sub>: Minimum resistance of device prior to trip at 25°C.

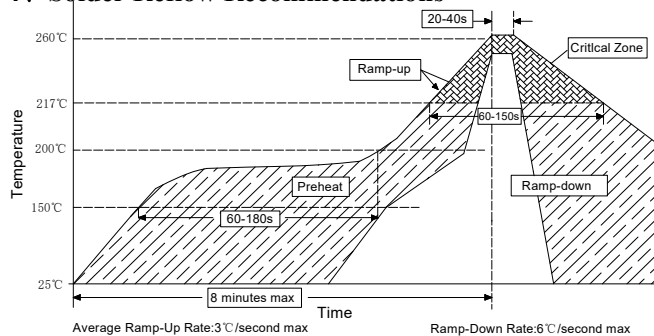
R1<sub>max</sub>: Maximum resistance of device is measured one hours post reflow at 25°C.

Noted: All electrical function test is conducted after PCB mounted.

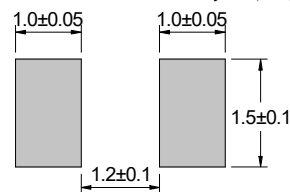
## 3、Thermal Derating

TLC-USMD010/50	Maximum ambient operating temperature								
	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C
Hold Current(A)	0.15	0.13	0.12	0.10	0.09	0.08	0.07	0.06	0.05
Trip Current(A)	0.45	0.39	0.36	0.30	0.27	0.24	0.21	0.18	0.15

## 4、Solder Reflow Recommendations



Recommended Pad Layout(mm)



Notes: If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.

## 5、Package Information

Packing quantity: 3500PCS/Reel

Note: Reel packaging per EIA-481-1 standard

## 6、Agency Recognition:



Caution: Operation beyond the rated voltage or current may result in rupture electrical arcing or flame. Specifications are subject to change without notice.

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