

# POLYMER PTC RESETTABLE FUSE

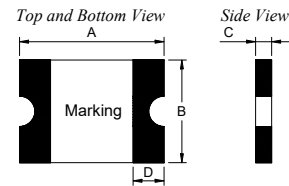


Part Number:TLC-USMD050/16

## 1、 Physical Dimensions(size of 1210)

Unit:mm

Part Number	A		B		C		D	Marking
	Min	Max	Min	Max	Min	Max	Min	
TLC-USMD050/16	3.00	3.43	2.35	2.80	0.60	1.00	0.30	T05



## 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-USMD050/16	0.50	1.00	16	40	8.00	0.10	0.60	0.18	0.90

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.

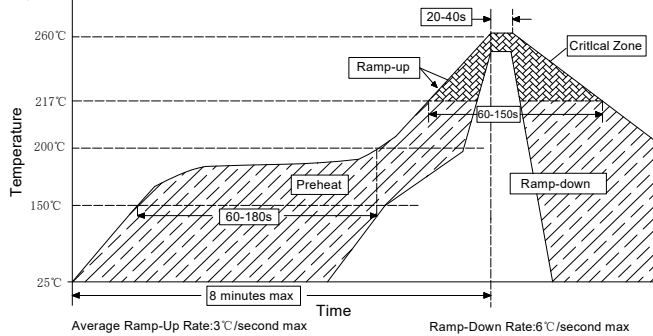
R1<sub>max</sub>: Maximum resistance of device is measured one hours post reflow at 25°C.

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

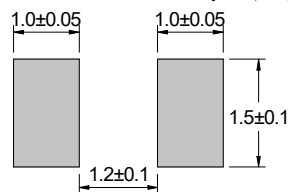
## 3、 Thermal Derating

TLC-USMD050/16	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)	0.76	0.66	0.58	0.50	0.42	0.38	0.35	0.29	0.23
Trip Current(A)	1.52	1.32	1.16	1.00	0.84	0.76	0.70	0.58	0.46

## 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:4000PCS/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.

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Resettable Fuses - PPTC category](#):*

*Click to view products by [TLC manufacturer](#):*

Other Similar products are found below :

[RF0077-000](#) [RF3256-000](#) [RF3281-000](#) [RF3301-000](#) [RF3344-000](#) [RF3350-000](#) [RF3382-000](#) [SMD125-2](#) [RF2171-000](#) [RF2531-000](#) [RF2873-000](#) [RF3060-000](#) [RF3288-000](#) [TR600-150Q-B-0.5-0.130](#) [RXE090](#) [5E4795/04-1502](#) [TRF250-080T-B-1.0-0.125](#) [SMD100-2](#) [NIS5452MT1TXG](#) [NIS5431MT1TXG](#) [SMD250-2](#) [0ZCM0001FF2G](#) [0ZCM0003FF2G](#) [0ZCM0004FF2G](#) [F95456-000](#) [RS30-090](#) [RS30-700](#) [RS30-800](#) [RS30-900](#) [RS60RB-005](#) [RS60RB-010](#) [RS60RB-020](#) [RS60RB-025](#) [RS60RB-050](#) [RS60RB-075](#) [RS60RB-160](#) [RS60SB-110](#) [RS60SB-135](#) [SB250-030](#) [SB250-040](#) [SB250-200](#) [SB250-600](#) [R60-375](#) [SMD1812K125SF16V](#) [SMD1812K200SF8V](#) [SMD1812K014SF60V](#) [K60X005](#) [K250R120](#) [0ZCH0110AF2E](#) [0603L001/60YR](#)