

POLYMER PTC RESETTABLE FUSE

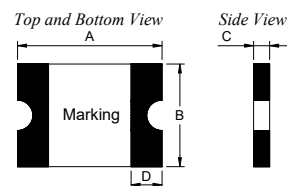


Part Number: TLC-PSMD050/16

1、 Physical Dimensions(size of 0805)

Unit:mm

Part Number	A		B		C		D	Marking
	Min	Max	Min	Max	Min	Max	Min	
TLC-PSMD050/16	2.0	2.3	1.2	1.5	0.60	1.10	0.20	4



2、 Electrical Characteristics

Part Number	I _H (A)	I _T (A)	V _{max} (V)	I _{max} (A)	T _{trip} (Max time to trip)		Pd _{typ} (W)	R _{min} (Ω)	R1 _{max} (Ω)
					Current(A)	Time(S)			
TLC-PSMD050/16	0.50	1.00	16.0	100	8.0	0.10	0.50	0.150	0.900

I_H: Holding Current: maximum current at which the device will not trip in 25°C still air.

I_T: Tripping Current minimum current at which the device will trip in 25°C still air.

V_{max}: Maximum voltage device can withstand without damage at rated current.

I_{max}: Maximum fault current device can withstand without damage at rated voltage.

T_{trip}: Maximum time to trip(s) at assigned current.

Pd_{typ}: Rated working power.

R_{min}: Minimum resistance of device prior to trip at 25°C.

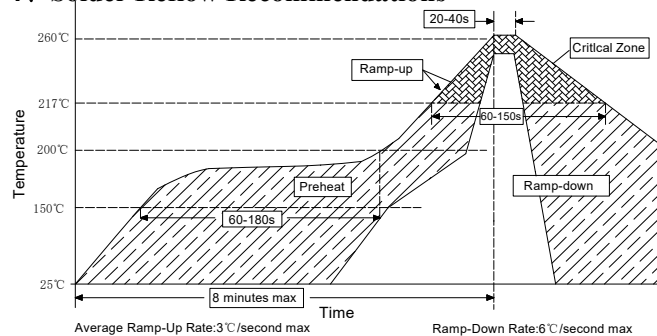
R1_{max}: Maximum resistance of device is measured one hours post reflow at 25°C.

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

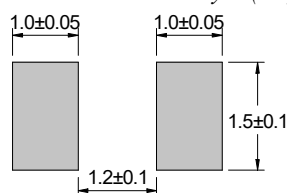
3、 Thermal Derating

TLC-PSMD050/16	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)	0.68	0.62	0.55	0.50	0.40	0.37	0.33	0.29	0.23
Trip Current(A)	1.36	1.24	1.10	1.00	0.80	0.74	0.66	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: 3500PCS/Reel

Note: Reel packaging per EIA-481-1 standard

6、 Agency Recognition: TUV



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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