

POLYMER PTC RESETTABLE FUSE

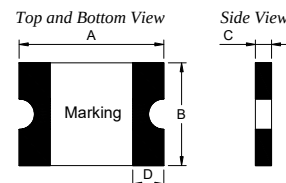


Part Number: TLC-FSMD050

1、Physical Dimensions(size of 0603)

Unit:mm

Part Number	A		B		C		D	Marking
	Min	Max	Min	Max	Min	Max	Min	
TLC-FSMD050	1.45	1.85	0.65	1.05	0.60	1.00	0.20	Black



2、Electrical Characteristics

Part Number	I_H (A)	I_T (A)	V_{max} (V)	I_{max} (A)	T_{trip} (Max time to trip)		$P_{d\ typ}$ (W)	R_{min} (Ω)	$R_{1\ max}$ (Ω)
					Current(A)	Time(S)			
TLC-FSMD050	0.50	1.00	6.00	40	8.0	0.10	0.50	0.10	0.80

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.

$P_{d\ typ}$: Rated working power.

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

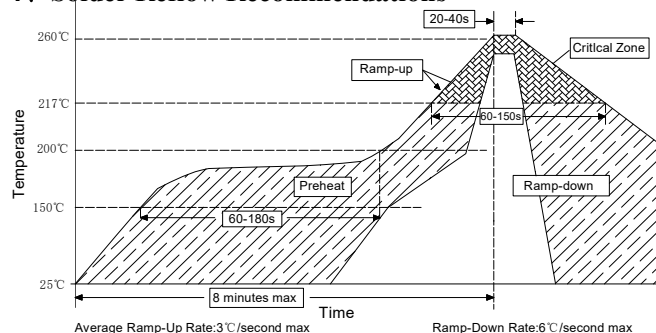
$R_{1\ max}$: Maximum resistance of device is measured one hours post reflow at 25°C.

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

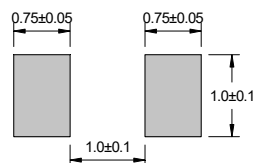
3、Thermal Derating

TLC-FSMD050	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)	0.67	0.59	0.54	0.50	0.41	0.37	0.34	0.29	0.20
Trip Current(A)	1.34	1.18	1.08	1.00	0.82	0.74	0.68	0.58	0.40

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: UL、CSA、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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