

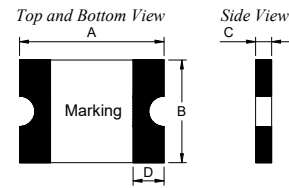
POLYMER PTC RESETTABLE FUSE

Part Number:TLC-FSMD005/24

1、 Physical Dimensions(size of 0603)

Unit:mm

| Part Number | A | | B | | C | | D | Marking |
|----------------|------|------|------|------|------|------|------|---------|
| | Min | Max | Min | Max | Min | Max | Min | |
| TLC-FSMD005/24 | 1.45 | 1.85 | 0.65 | 1.05 | 0.35 | 0.85 | 0.20 | K |



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-FSMD005/24 | 0.05 | 0.15 | 24 | 20 | 0.50 | 0.10 | 0.50 | 3.5 | 35 |

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.

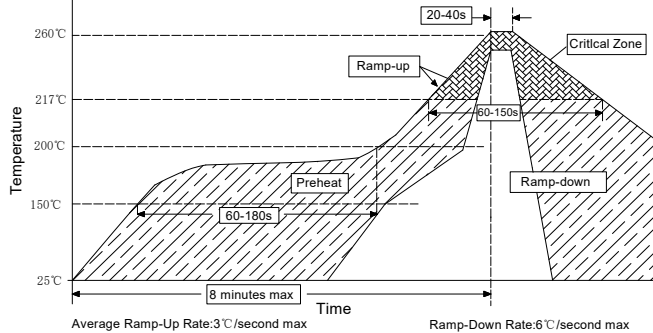
R1_{max}: Maximum resistance of device is measured one hours post reflow at 25°C.

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

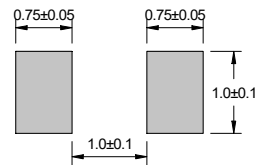
3、 Thermal Derating

| TLC-FSMD005/24 | 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) | 0.065 | 0.060 | 0.055 | 0.050 | 0.045 | 0.040 | 0.035 | 0.030 | 0.025 |
| Trip Current(A) | 0.195 | 0.180 | 0.165 | 0.150 | 0.135 | 0.120 | 0.105 | 0.090 | 0.075 |

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: 5000PCS/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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