REV LETTER: E
PAGE NO: 1 OF 1
PART NUMBER:

**LP-MSM014**

# Polymer PTC Devices

***Surface mount fuses***

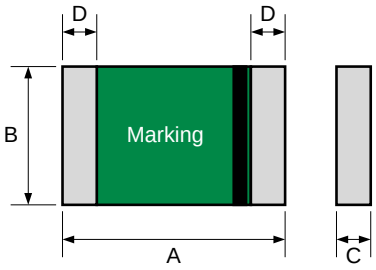
**Shanghai Wayon Thermo/Electro Materials Co.,Ltd.**
4th Floor, No.201, New Jinqiao Road, Shanghai 201206,China
Tel: 86-21- 50320161 58995165 Fax: 86-21-50320266
E-mail: market@way-on.com ***Http://www.way-on.com***

## Features

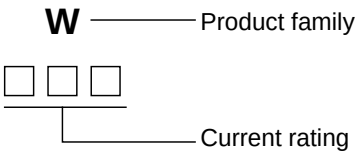

- ☐ Small size of 1812
- ☐ Fast tripping resettable circuit protection
- ☐ Surface mount packaging for automated assembly
- ☐ Agency Recognition: UL、CSA、TUV

## Product Dimensions (mm)

| Part number | A | B | C | D |
|---|---|---|---|---|
| | Max. | Max. | Max. | Max. |
| LP-MSM014 | 4.73 | 3.41 | 0.81 | 0.60 |




### Part Marking System

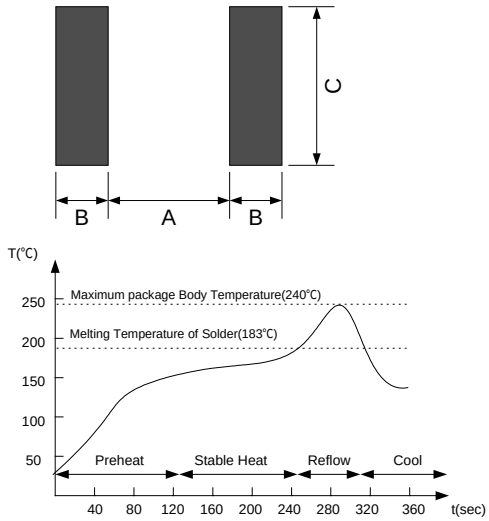



## Electrical Characteristics

| Part number | $I_H$ | $I_T$ | $V_{max}$ | $I_{max}$ | $T_{trip}$ | | $Pd_{typ}$ | $R_{min}$ | $R_{1max}$ |
|---|---|---|---|---|---|---|---|---|---|
| | (A) | (A) | (V) | (A) | Current(A) | Time(S) | (W) | (Ω) | (Ω) |
| LP-MSM014 | 0.14 | 0.34 | 60 | 10 | 1.5 | 0.15 | 1.0 | 0.70 | 6.00 |

$I_H$=Hold current: maximum current at which the device will not trip at 25℃ still air.
$I_T$=Trip current: minimum current at which the device will always trip at 25℃ 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.
$Pd_{typ}$=Typical power dissipation: typical amount of power dissipated by the device when in state air environment.
$R_{min}$=Minimum device resistance at 25℃ prior to tripping.
$R_{1max}$=Maximum device resistance measured in the nontripped state 1 hour post reflow.

## Solder Reflow Recommendations




### Solder Pad Layouts

| Part number | A | B | C |
|---|---|---|---|
| | (mm) | (mm) | (mm) |
| LP-MSM014 | 3.45 | 1.78 | 3.15 |

* Recommended reflow methods: IR, Vapor phase oven, hot air oven, wave solder.
* Devices can be cleaned using standard industry methods and solvents.

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

### Package Information

Tape & Reel: 2000pcs per reel.