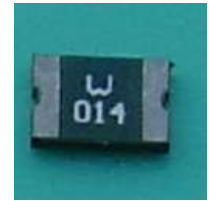


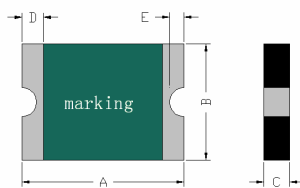
## Features

- Small size of 1812
- Lead-free and compliant with the European Union RoHS Directive 2011/65/EU
- Fast tripping resettable circuit protection
- Surface mount packaging for automated assembly
- Agency Recognition: UL、CSA、TUV

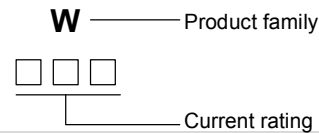


## Product Dimensions (mm)

Part number	A	B	C	D	E
	Max.	Max.	Max.	Min.	Min.
LP-MSM014	4.73	3.41	1.00	0.30	0.30



## Part Marking System



## Electrical Characteristics

Part number	$I_H$ (A)	$I_T$ (A)	$V_{max}$ (V)	$I_{max}$ (A)	$T_{trip}$ Current(A) Time(S)	$Pd_{typ}$ (W)	$R_{min}$ ( $\Omega$ )	$R_{1max}$ ( $\Omega$ )
LP-MSM014	0.14	0.34	60	10	1.5 0.15	1.0	1.50	6.00

$I_H$ =Hold current: maximum current at which the device will not trip at 25°C still air.

$I_T$ =Trip current: minimum current at which the device will always trip at 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.

$Pd_{typ}$ =Typical power dissipation: typical amount of power dissipated by the device when in state air environment.

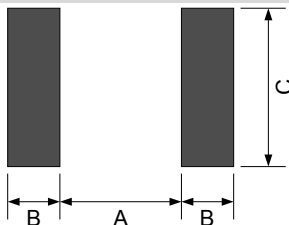
$R_{min}$ =Minimum device resistance at 25°C prior to tripping.

$R_{1max}$ =Maximum device resistance measured in the nontripped state 1 hour post reflow.

## Thermal Derating

LP-MSM014	Maximum ambient operating temperature(°C)									
	-40	-20	0	20	25	40	50	60	70	85
Hold Current (A)	0.23	0.20	0.18	0.16	0.14	0.12	0.11	0.10	0.07	0.05
Trip Current (A)	0.48	0.44	0.40	0.36	0.34	0.28	0.26	0.24	0.18	0.12

## Solder Reflow Recommendations



### Solder Pad Layouts

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

\* Recommended reflow methods: IR, Vapor phase, hot air oven.

\* 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.
- Devices are not designed to be wave soldered to the bottom side of the board.

### Package Information

Tape & Reel: 2000pcs per reel.

**Effectivity:** Reference documents shall be the issue in effect on the date of invitation for bid.

**Caution:** Operation beyond the rated voltage or current may result in rupture electrical arcing or flame. Specifications are subject to change without notice.

