REV LETTER: E
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PART NUMBER:

LP-MSM020

Polymer PTC Devices

Surface mount fuses

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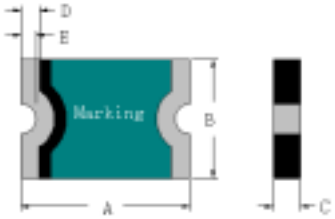
Features

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

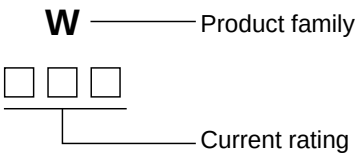
Product Dimensions (mm)

Part number	A	B	C	D	E
	Max.	Max.	Max.	Max.	Min.
LP-MSM020	4.73	3.41	0.81	0.60	0.30



Top View Side View

Part Marking System

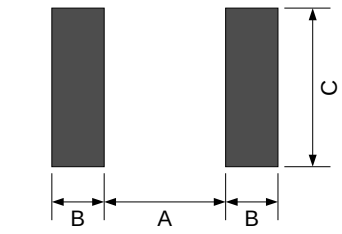


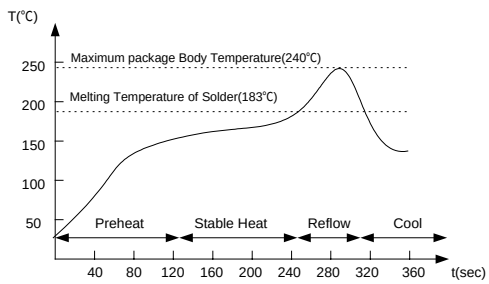
Electrical Characteristics

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-MSM020	0.20	0.40	30	10	6.0	0.06	1.0	0.60	5.00

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-MSM020	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.