

**Polymer
PTC Devices**

Strap resettable fuses

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LP180

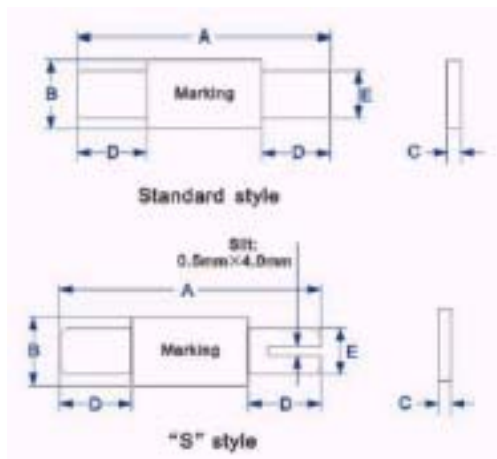
Features

- Strap devices, Axial leaded, Low initial resistance
- Typical used for protection of NiCd/NiMH rechargeable battery packs, Li-ion /Polymer Li-ion battery
- Available in lead-free version
- Agency recognition: UL, CSA, TUV

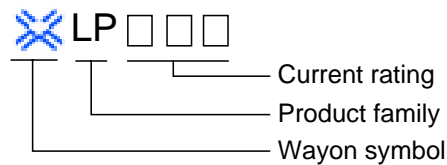


Product Dimensions (mm)

| Part number | A | | B | | C | | D | | E | |
|-------------|------|------|------|------|------|------|------|------|------|------|
| | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. |
| LP180 | 20.9 | 23.1 | 4.9 | 5.5 | 0.5 | 1.0 | 4.0 | 6.0 | 3.8 | 4.2 |



Marking system



- * Lead materials: Nickel.
- * Insulating material: Polyester tape.
- * Lead-free devices are available, the right logo is lead-free mark of wayon.



Electrical Characteristics

| Part number | I_H | I_T | T_{trip} | | V_{max} | I_{max} | R_{min} | R_{max} |
|-------------|-------|-------|------------|---------|-----------|-----------|-----------|-----------|
| | (A) | (A) | Current(A) | Time(S) | (V) | (A) | () | () |
| LP180 | 1.80 | 3.80 | 9.0 | 2.9 | 24 | 100 | 0.040 | 0.068 |

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.

T_{trip} =Maximum time to trip(s) at assigned current.

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.

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

R_{max} =Maximum device resistance at 25 prior to tripping.

Thermal Derating Chart- I_H (A)

| Part number | Maximum ambient operating temperatures() | | | | | | | | |
|-------------|---|------|------|------|------|------|------|------|------|
| | -40 | -20 | 0 | 25 | 40 | 50 | 60 | 70 | 85 |
| LP180 | 3.23 | 2.88 | 2.35 | 1.80 | 1.48 | 1.20 | 1.10 | 0.75 | 0.45 |

Package Information

Bulk: 1000pcs per bag.