

PTC Resettable Fuse

Axial Leaded

multicompPRO

**RoHS
Compliant**



Applications

Rechargeable battery packs, Lithium cell and battery packs

Features

- Low profile
- Low resistance
- High hold current
- Solid state
- UL and TUV Approved

Specification

Operation Current : 1.9A to 9.0A
Maximum Voltage : 15V to 20V DC
Temperature Range : -40°C to 85°C

Electrical Characteristics (23°C)

| Part Number | Hold Current | Trip Current | Max.Time to Trip | Rated Voltage | Max Current | Typical Power | Resistance | | |
|-------------|--------------------|--------------------|--------------------------|-------------------------|----------------------|--------------------|------------|-------|-------|
| | | | | | | | RMIN | RMAX | R1MAX |
| | I _H , A | I _T , A | at 5X I _H , S | V _{MAX} , V DC | I _{MAX} , A | P _d , W | Ohms | Ohms | Ohms |
| MP010217 | 1.9 | 3.9 | 5 | 15 | 100 | 1.2 | 0.039 | 0.072 | 0.102 |
| MP010218 | 2.6 | 5.8 | | | | 2.5 | 0.020 | 0.042 | 0.063 |
| MP010219 | 3.8 | 8.3 | | | | 2.5 | 0.013 | 0.026 | 0.037 |
| MP010220 | 4.5 | 8.9 | | 20 | | 2.5 | 0.011 | 0.020 | 0.028 |
| MP010221 | 5.5 | 10.5 | | | | 2.8 | 0.009 | 0.016 | 0.022 |
| MP010222 | 6 | 11.7 | | | | 2.8 | 0.007 | 0.014 | 0.019 |
| MP010223 | 7.3 | 14.1 | | | | 3.3 | 0.006 | 0.012 | 0.015 |

I_H=Hold current-maximum current at which the device will not trip at 23°C still air.

I_T=Trip current-minimum current at which the device will always trip at 23°C still air.

V_{MAX}=Maximum voltage device can withstand without damage at it rated current.

I_{MAX}= Maximum fault current device can withstand without damage at rated voltage (V MAX).

P_d=Typical power dissipated from device when in the tripped state in 23°C still air environment.

R_{MIN}=Minimum device resistance at 23°C

R_{1MAX}=Maximum device resistance at 23°C, 1 hour after tripping.

Physical specifications:

Lead material:0.13mm nominal thickness, quarter-hard nickel.

Insulating material: Polyester tape.

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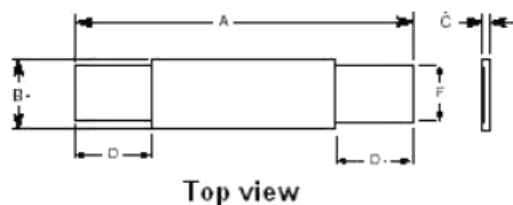
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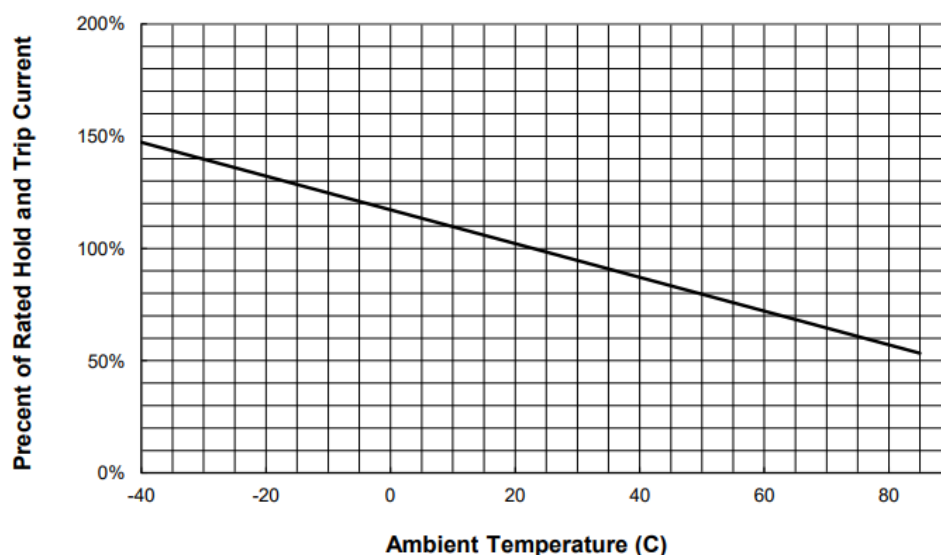
Product Dimensions



Dimensions : Millimetres

| Part Number | A | | B | | C | | D | | F | |
|-------------|------|------|------|------|-----|-----|-----|-----|-----|-----|
| | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| MP010217 | 19.9 | 22.1 | 4.9 | 5.5 | 0.6 | 1 | 5.5 | 7.5 | 3.9 | 4.1 |
| MP010218 | 20.9 | 23.1 | 4.9 | 5.5 | | | 4.1 | 5.5 | 3.9 | 4.1 |
| MP010219 | 24 | 26 | 6.9 | 7.5 | | | 4.1 | 5.5 | 4.9 | 5.1 |
| MP010220 | 24 | 26 | 9.9 | 10.5 | | | 5.3 | 6.7 | 5.9 | 6.1 |
| MP010221 | 35 | 37 | 6.9 | 7.5 | | | 5.3 | 6.7 | 4.9 | 5.1 |
| MP010222 | 24 | 26 | 13.9 | 14.5 | | | 4.1 | 5.5 | 5.9 | 6.1 |
| MP010223 | 27.1 | 29.1 | 13.9 | 14.5 | | | 4.1 | 5.5 | 5.9 | 6.1 |

Thermal Derating Curve



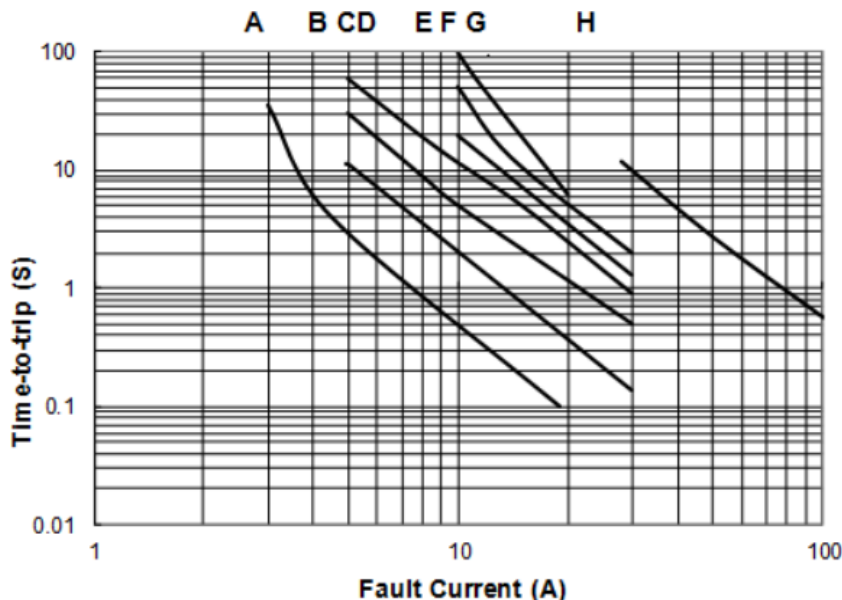
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Typical Time-To-Trip at 23°C

A=MP010217
B=MP010218
C=MP010219
D=MP010220
E=MP010221
F=MP010222
G=MP010223



Material Specification

Lead material: 0.13mm nominal thickness, quarter-hard nickel

Insulating material: Polyester tape

Part Number Table

| Description | Part Number |
|---|-------------|
| PTC Resettable Fuse, Battery Strap, 1.9A, 15VDC, Axial Leaded | MP010217 |
| PTC Resettable Fuse, Battery Strap, 2.6A, 15VDC, Axial Leaded | MP010218 |
| PTC Resettable Fuse, Battery Strap, 3.8A, 15VDC, Axial Leaded | MP010219 |
| PTC Resettable Fuse, Battery Strap, 4.5A, 20VDC, Axial Leaded | MP010220 |
| PTC Resettable Fuse, Battery Strap, 5.5A, 20VDC, Axial Leaded | MP010221 |
| PTC Resettable Fuse, Battery Strap, 6A, 20VDC, Axial Leaded | MP010222 |
| PTC Resettable Fuse, Battery Strap, 7.3A, 20VDC, Axial Leaded | MP010223 |

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