

PTC Resettable Fuse

Axial Leaded

multicomp PRO

**RoHS
Compliant**



Applications

Rechargeable battery packs, Lithium cell and battery packs

Features

- Low profile
- Low resistance
- High hold current
- Solid state

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		
	I _H , A	I _T , A	at 5X I _H , S	V _{MAX} , V DC	I _{MAX} , A	P _d , W	R _{MIN} Ohms	R _{MAX} Ohms	R _{1MAX} 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.

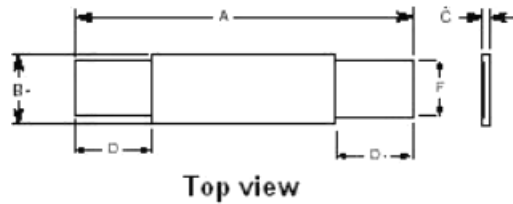
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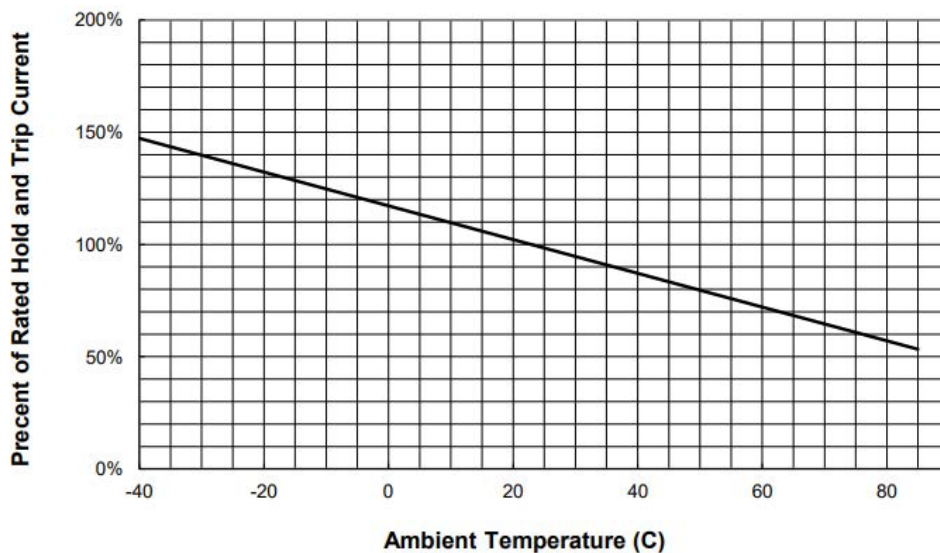
Product Dimensions



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



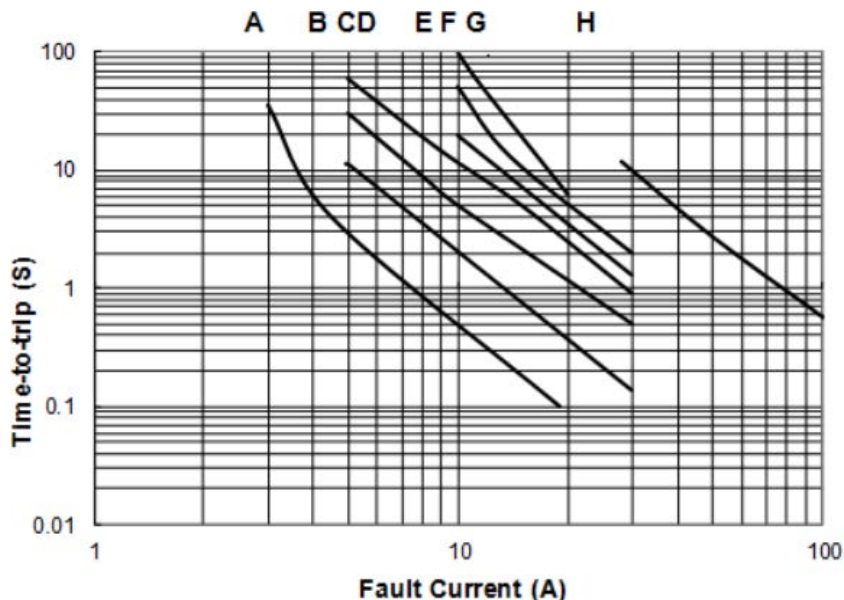
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Typical Time-To-Trip at 23°C

- 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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