

RoHS
Compliant



Specifications

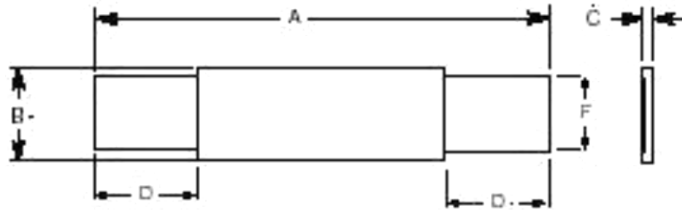
Applications : Rechargeable battery packs, Lithium cell and battery packs
 Product Features : Low profile, Solid state
 Operation Current : 1.2A to 4.2A
 Maximum Voltage : 15V to 30VDC
 Temperature Range : -40°C to 85°C

Electrical Characteristics (23°C)

Part Number	Hold Current	Trip Current	Max. Time to Trip	Rated Voltage	Max. Current	Typ. Power	Resistance		
							R _{MIN}	R _{MAX}	R _{1MAX}
							I _H , A	I _T , A	at 5 × I _H , S
MP008048	1.2	2.7	5	15	100	1.2	0.085	0.16	0.22
MP008049	1.75	3.8				1.5	0.05	0.09	0.12
MP008050	2	4.4	4	30		1.9	0.03	0.06	0.1
MP008051	3.5	6.3	3			2.5	0.017	0.031	0.05
MP008052	4.2	7.6	6			2.9	0.012	0.024	0.04

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 its 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 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.

Production Dimensions (millimeter)

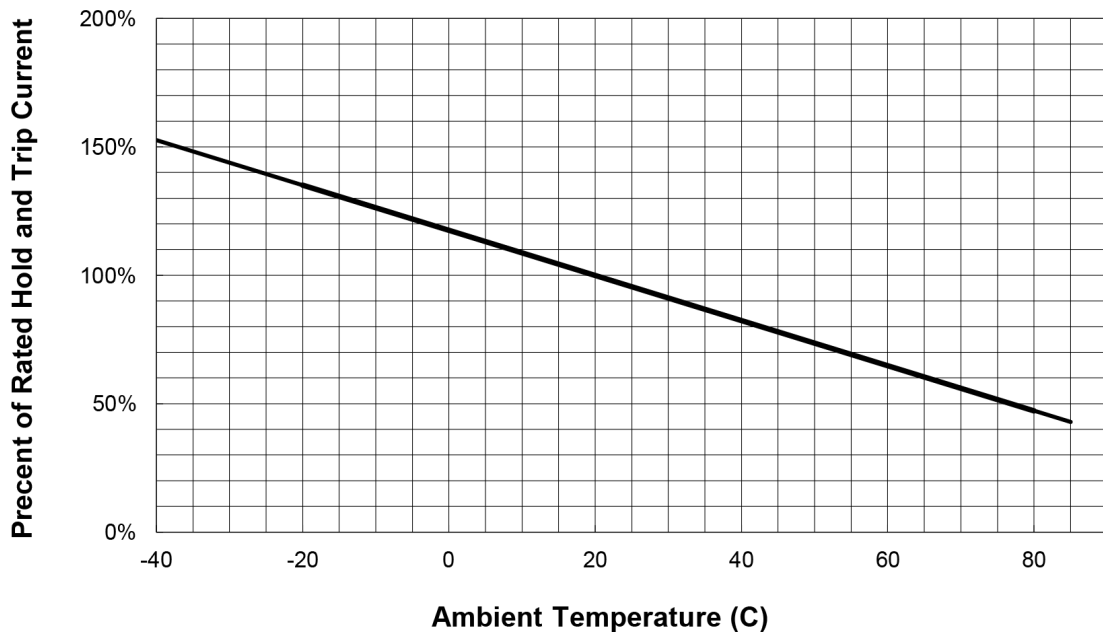


Top view

Part Number	A		B		C		D		F	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
MP008048	19.9	22.1	4.9	5.2	0.6	1.0	5.5	7.5	3.9	4.1
MP008049	20.9	23.1	4.9	5.2	0.6	1.0	4.1	5.5	3.9	4.1
MP008050	21.3	23.4	10.2	11.0	0.5	1.1	5.0	7.6	4.8	5.4
MP008051	28.4	31.8	13.0	13.5	0.5	1.1	6.3	8.9	5.9	6.1
MP008052	30.6	32.4	12.9	13.6	0.5	1.1	5.0	7.5	5.9	6.1

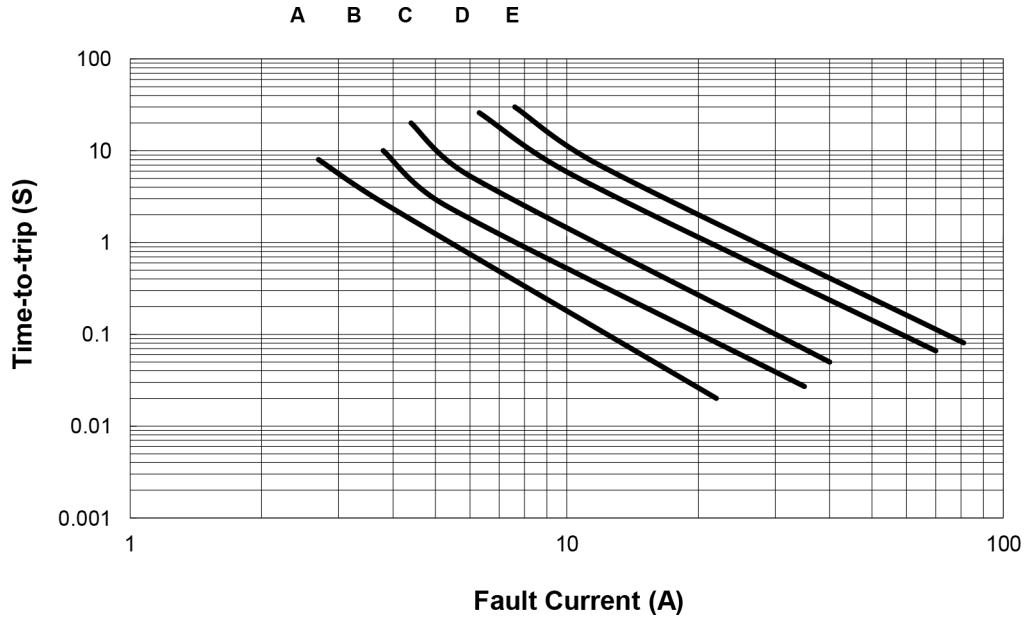
Thermal Derating Curve

FSR Series



Typical Time-To-Trip at 23°C

- A = MP008048
- B = MP008049
- C = MP008050
- D = MP008051
- E = MP008052



Material Specification

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

Part Number Table

Description	Part Number
PTC Resettable Fuse, 1.2A, Axial Leaded	MP008048
PTC Resettable Fuse, 1.75A, Axial Leaded	MP008049
PTC Resettable Fuse, 2A, Axial Leaded	MP008050
PTC Resettable Fuse, 3.5A, Axial Leaded	MP008051
PTC Resettable Fuse, 4.2A, Axial Leaded	MP008052

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