PTC Resettable Fuse
Radial Leaded

RoHS Compliant

Application

Wide variety of electronic equipment

Features

- Very Low resistance
- Very High hold current
- Solid state
- Radial leaded product ideal for up to 32V and Operating temperatures up to 125°C.
- UL and TUV Approved

Specifications

Operation Current : 0.5A to 10A
Maximum Voltage : 32V
Temperature Range : -40°C to 125°C

Electrical Characteristics (23°C)

Part Number	Hold Current	Trip Current	Max.Time to Trip	Max Current	Rated Voltage	Typical Power	Resistance	
							R_{MIN}	$R1_{MAX}$
	I_H, A	I_T, A	at 5XI_H,S	I_{MAX}, A	V_{MAX}, V DC	Pd, W	Ohms	Ohms
MP010843	0.5	1	3	100	32	0.9	0.35	1.1
MP010844	0.7	1.4	3.2			1.4	0.23	0.8
MP010845	1	1.9	6.2				0.15	0.43
MP010846	2	4	5.5			2.2	0.065	0.25
MP010847	3	6	5			3.2	0.035	0.11
MP010848	5	10	9			5.3	0.015	0.04
MP010849	7.5	15	13			6.5	0.0074	0.023
MP010850	10	20	15			7	0.006	0.016

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
$R1_{MAX}$=Maximum device resistance at 23°C, 1 hour after tripping.
Physical specifications : MP010843~MP010845 Tin plated copper clad steel, 24 AWG.
MP010846~MP010849 Tin plated copper, 20 AWG.
MP010850 Tin plated copper, 18 AWG.
Soldering characteristics: MIL-STD-202, Method 208E.
Insulating coating: Flame retardant epoxy, meets UL-94V-0 requirement.

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Product Dimensions

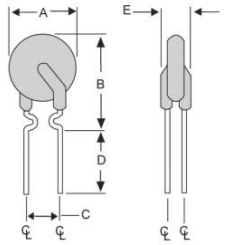


Fig.1
Lead Size: 24AWG
Φ0. 51 mm Diameter

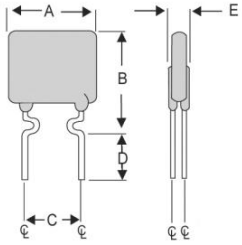


Fig.2
Lead Size: 24AWG
Φ0.51 mm Diameter

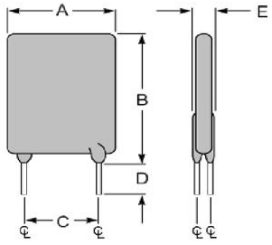


Fig.3
Lead Size: 20AWG
Φ0.81 mm Diameter

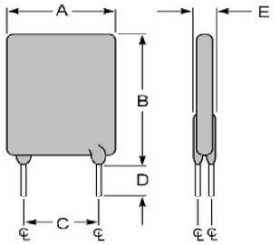
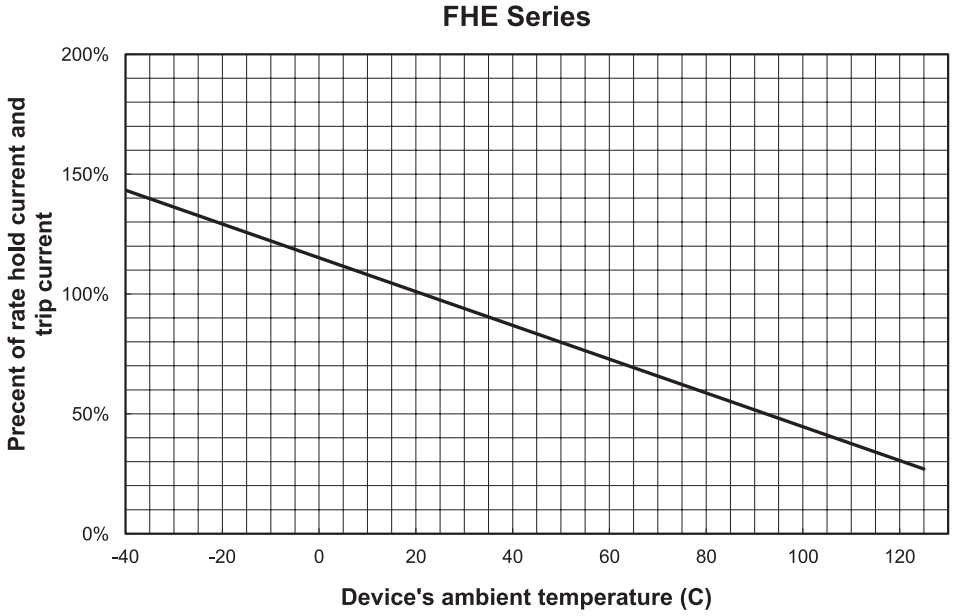


Fig.4
Lead Size: 18AWG
Φ1.00 mm Diameter

Dimensions : Millimetres

Part Number	Figure	A	B	C	D	E
		Maximum	Maximum	Typical	Maximum	Maximum
MP010843	1	7.4	12.7	5.1	7.6	3.3
MP010844	2	6.9	10.8			3
MP010845	1	9.7	13.6			
MP010846	3	9.5	13.5			
MP010847	3	10.2	15.5			3.8
MP010848	3	14	24.1			
MP010849	3	21.1	24.9	10.2		
MP010850	4	23.5	27.9			4

Thermal Derating Curve



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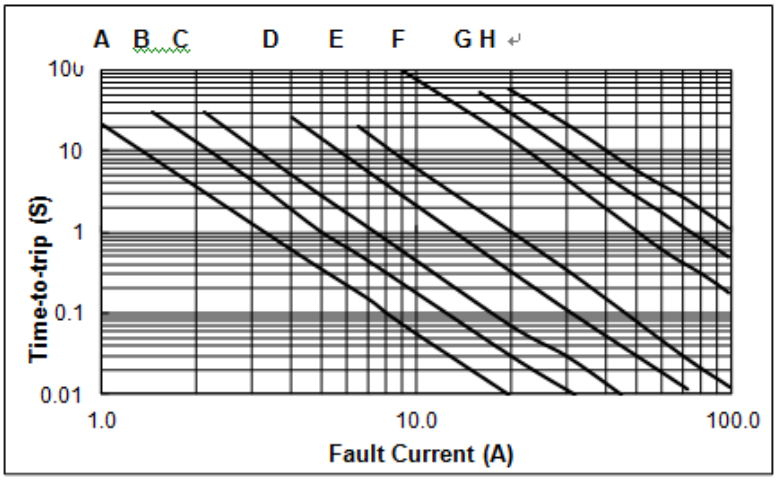
Typical Time-To-Trip at 23°C

A=MP010843
B=MP010844
C=MP010845
D=MP010846
E=MP010847
F=MP010848
G=MP010849
H=MP010850



Material Specification

Lead material : MP010843~MP010845 Tin plated copper clad steel, 24 AWG.
MP010846~MP010849 Tin plated copper, 20 AWG.
MP010850 Tin plated copper, 18 AWG.
Soldering characteristics: MIL-STD-202, Method 208E.
Insulating coating: Flame retardant epoxy, meets UL-94V-0 requirement.

Part Number Table

Description	Part Number
Radial Leaded PTC Resettable Fuse, 0.5A	MP010843
Radial Leaded PTC Resettable Fuse, 0.7A	MP010844
Radial Leaded PTC Resettable Fuse, 1.0A	MP010845
Radial Leaded PTC Resettable Fuse, 2.0A	MP010846
Radial Leaded PTC Resettable Fuse, 3.0A	MP010847
Radial Leaded PTC Resettable Fuse, 5.0A	MP010848
Radial Leaded PTC Resettable Fuse, 7.5A	MP010849
Radial Leaded PTC Resettable Fuse, 10.0A	MP010850