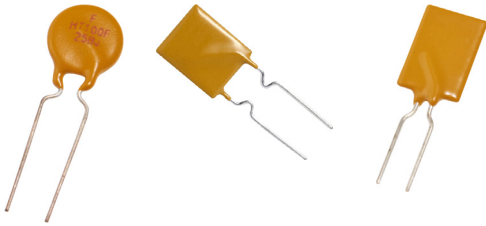


# Radial Leaded PTC Resettable Fuse **multicomp**PRO

RoHS  
Compliant



## Specifications

Applications	: Wide variety of electronic equipment
Product Features	: Very Low resistance, Very High hold current, Solid state, Radial leaded product ideal for up to 16V and Operating temperatures up to 125°C.
Operation Current	: 0.5A to 15A
Maximum Voltage	: 16V/30V DC
Temperature Range	: -40°C to 125°C
Approval	: UL Approved

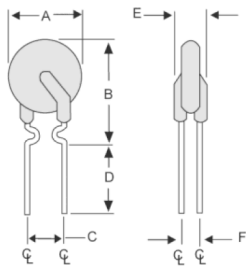
## Electrical Characteristics (23°C)

Part Number	Hold Current	Trip Current	Max. Time to Trip	Maximum Current	Rated Voltage	Typical Power	Resistance	
							R <sub>MIN</sub>	R <sub>1MAX</sub>
	I <sub>H</sub> , A	I <sub>T</sub> , A	at 5 × I <sub>H</sub> , S	I <sub>MAX</sub> , A	V <sub>MAX</sub> , V <sub>DC</sub>	P <sub>d</sub> , W	Ω	Ω
MP008029	0.5	0.9	2.5	40	30	0.9	0.4800	1.1
MP008030	0.7	1.4	3.2	40	30	1.4	0.3000	0.8
MP008031	1	1.8	5.2	40	30	1.4	0.1800	0.43
MP008032	2	3.8	3	100	16	1.4	0.0450	0.11
MP008033	3	6	5	100	16	3	0.0330	0.079
MP008034	4	7	5	100	16	3.3	0.0240	0.06
MP008035	4.5	7.8	3	100	16	3.6	0.0220	0.054
MP008036	5.5	10	6	100	16	3.5	0.0150	0.037
MP008037	6	10.8	5	100	16	4.1	0.0130	0.032
MP008038	6.5	12	5.5	100	16	4.3	0.0110	0.026
MP008039	7	13	7	100	16	4	0.0100	0.025
MP008040	7.5	13.1	7	100	16	4.5	0.0094	0.022
MP008041	8	15	8	100	16	4.2	0.0080	0.02
MP008042	9	16.5	10	100	16	5	0.0074	0.017
MP008043	10	18.5	9	100	16	5.3	0.0062	0.015
MP008044	11	20	11	100	16	5.5	0.0055	0.013
MP008045	13	24	13	100	16	6.9	0.0041	0.01
MP008046	14	27	13	100	16	6.9	0.0030	0.009
MP008047	15	28	20	100	16	7	0.0032	0.0092

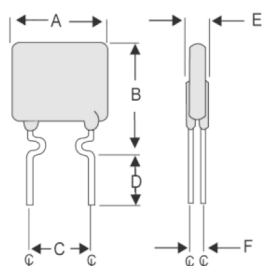
# Radial Leaded PTC Resettable Fuse **multicomp**PRO

$I_H$ =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.  
 $R1_{MAX}$ =Maximum device resistance at 23°C, 1 hour after tripping.

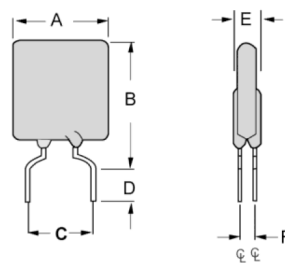
## Production Dimensions (millimeter)



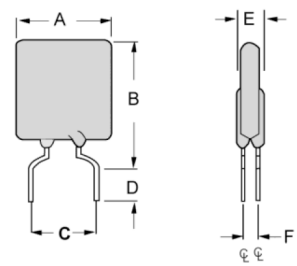
**Fig.1**  
**Lead Size :24AWG**  
**Ø0.51 mm Diameter**



**Fig.2**  
**Lead Size :24AWG**  
**Ø0.51 mm Diameter**



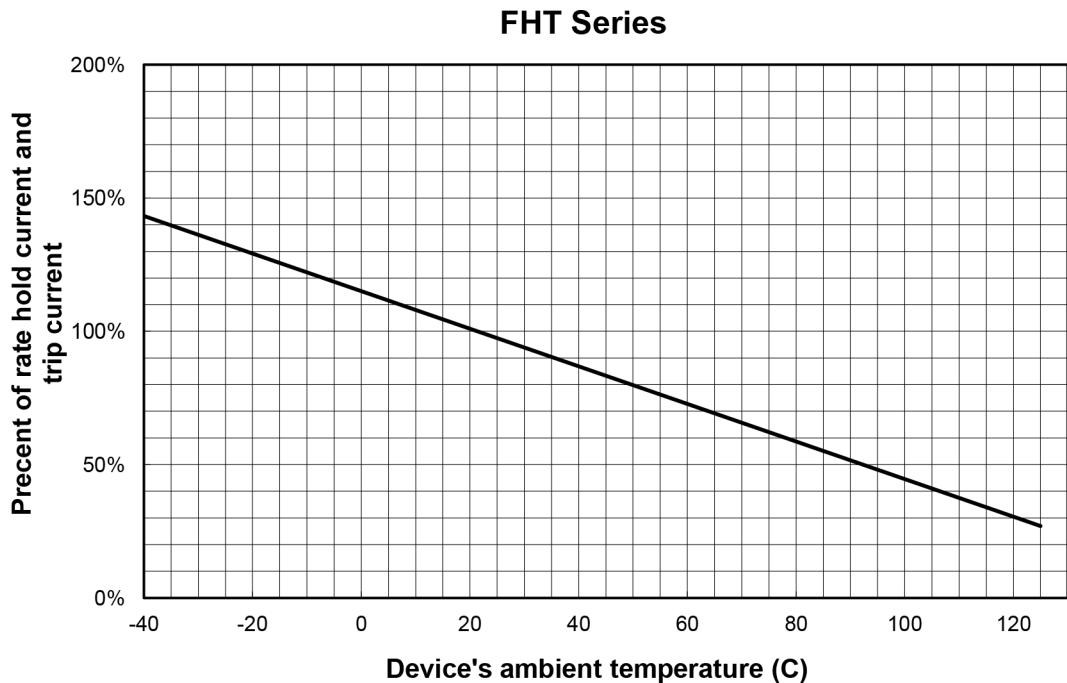
**Fig.3**  
**Lead Size : 20AWG**  
**Ø 0.81 mm Diameter**



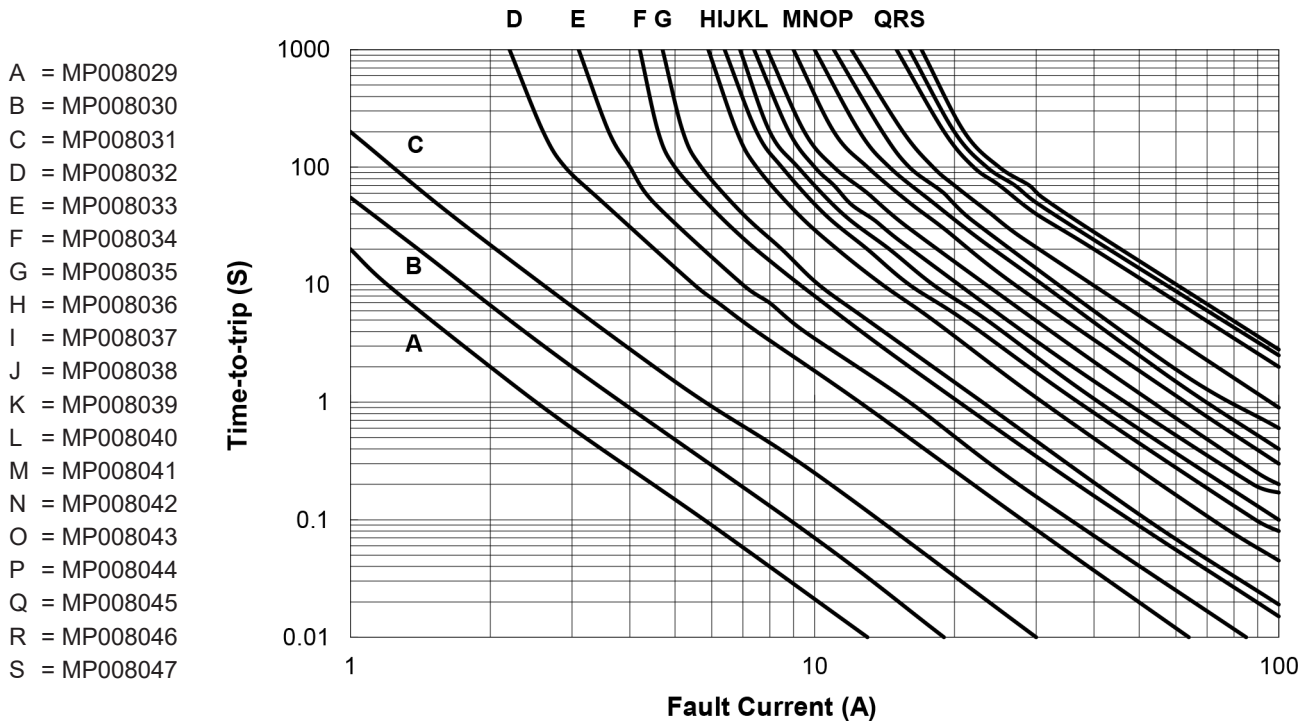
**Fig.4**  
**Lead Size : 18AWG**  
**Ø 1.00 mm Diameter**

Part Number	Figure	A	B	C	D	E	F
		Maximum	Maximum	Typical	Minimum	Maximum	Typical
MP008029	1	7.4	12.7	5.1	7.6	3	1.2
MP008030	2	6.9	10.8				
MP008031	1	9.7	13.6				
MP008032		9.4	14.4				
MP008033	3	8.8	13.8				
MP008034		10	15				
MP008035		10.4	15.6				
MP008036		11.2	18.9				
MP008037		11.2	21				
MP008038		12.7	22.2				
MP008039		14	21.9				
MP008040		14	23.5				
MP008041		16.5	22.5				
MP008042		16.5	25.7				
MP008043		17.5	26.5				
MP008044		21	26.1				
MP008045	4	23.5	28.7	10.2	3.6	1.4	
MP008046							
MP008047							

## Thermal Derating Curve



## Typical Time-To-Trip at 23°C



**Part Number Table**

Description	TUV Approval	Part Number
PTC Resettable Fuse, 500mA, Radial Leaded	No	MP008029
PTC Resettable Fuse, 700mA, Radial Leaded		MP008030
PTC Resettable Fuse, 1A, Radial Leaded		MP008031
PTC Resettable Fuse, 2A, Radial Leaded		MP008032
PTC Resettable Fuse, 3A, Radial Leaded		MP008033
PTC Resettable Fuse, 4A, Radial Leaded		MP008034
PTC Resettable Fuse, 4.5A, Radial Leaded		MP008035
PTC Resettable Fuse, 5.5A, Radial Leaded		MP008036
PTC Resettable Fuse, 6A, Radial Leaded	Yes	MP008037
PTC Resettable Fuse, 6.5A, Radial Leaded		MP008038
PTC Resettable Fuse, 7A, Radial Leaded		MP008039
PTC Resettable Fuse, 7.5A, Radial Leaded		MP008040
PTC Resettable Fuse, 8A, Radial Leaded		MP008041
PTC Resettable Fuse, 9A, Radial Leaded		MP008042
PTC Resettable Fuse, 10A, Radial Leaded	No	MP008043
PTC Resettable Fuse, 11A, Radial Leaded		MP008044
PTC Resettable Fuse, 13A, Radial Leaded		MP008045
PTC Resettable Fuse, 14A, Radial Leaded		MP008046
PTC Resettable Fuse, 15A, Radial Leaded		MP008047

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