

# Radial Leaded PTC Resettable Fuse



RoHS  
Compliant



## Specifications:

Applications	: Low voltage USB equipment and computers and peripherals
Product features	: Low resistance, fast trip time, low trip-to-hold ratio
Maximum voltage	: 16V / 30V
Temperature range	: -40°C to 85°C

## Electrical Characteristics (23°C)

Hold Current	Trip Current	Max. Time to trip		Max. Current	Rated Voltage	Typical Power	Resistance		Part Number
							R <sub>Min</sub>	R <sub>1Max</sub>	
I <sub>H</sub> , A	I <sub>T</sub> , A	at 8A	at 5 × I <sub>H</sub>	I <sub>MAX</sub> , A	V <sub>MAX</sub> , V DC	P <sub>D</sub> , W	Ω	Ω	
0.75	1.3	0.4	-	40	16	0.3	0.08	0.23	MC36245
0.9	1.8	1.2	5.9	40	16/30	0.6	0.07	0.18	MC36246
1.1	2.2	2.3	6.6	40	16/30	0.7	0.05	0.14	MC36247
1.2	2	0.5	-	40	16	0.6	0.04	0.14	MC36248
1.35	2.7	4.5	7.3	40	16/30	0.8	0.04	0.12	MC36249
1.55	2.7	0.6	-	40	16	0.7	0.03	0.12	MC36250
1.6	3.2	9	8	40	16/30	0.9	0.03	0.11	MC36251
1.85	3.7	10	8.7	40	16/30	1	0.03	0.09	MC36252
2.5	5	40	10.3	40	16/30	1.2	0.02	0.07	MC36253

I<sub>H</sub> = Hold current-maximum current at which the device will not trip at 23°C still air.

I<sub>T</sub> = Trip current-minimum current at which the device will always trip at 23°C still air.

V<sub>MAX</sub> = Maximum voltage device can withstand without damage at its rated current.

I<sub>MAX</sub> = Maximum fault current device can withstand without damage at rated voltage (V maximum).

P<sub>D</sub> = Typical power dissipated from device when in the tripped state in 23°C still air environment.

R<sub>Min</sub> = Minimum device resistance at 23°C.

R<sub>1Max</sub> = Maximum device resistance at 23°C, 1 hour after tripping.

## Physical specifications:

Lead material : Tin plated copper.

Soldering characteristics : Solder ability per ANSI/J-STD 002  
Solder heat withstand per IEC 68-2-20.

Insulating coating : Flame retardant epoxy polymer.

# Radial Leaded PTC Resettable Fuse



## Production Dimensions (millimeter)

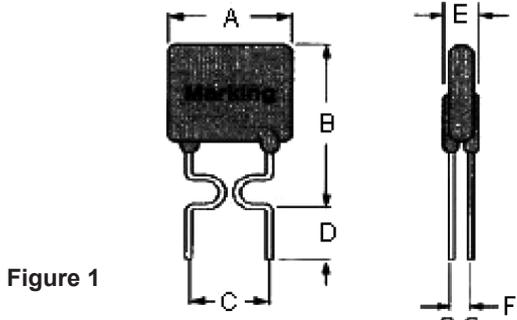


Figure 1

Lead Size : 24 AWG  
Ø0.51mm Diameter

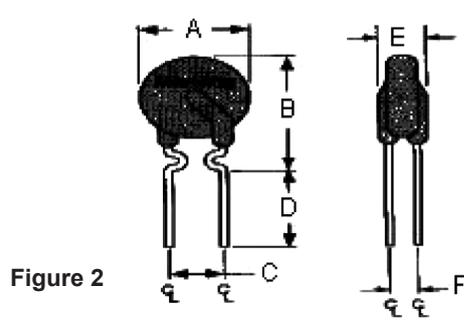


Figure 2

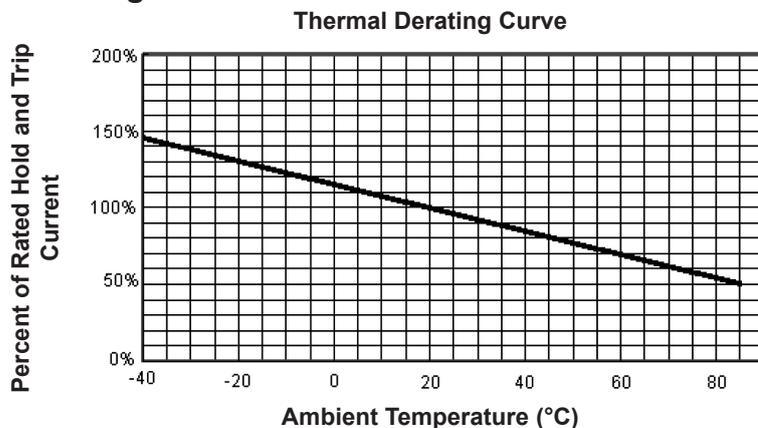
Lead Size : 24 AWG  
Ø0.51mm Diameter

## Dimensions Table

A	B	C	D	E	F	Figure	Part Number
Maximum	Maximum	Typical	Minimum	Maximum	Typical		
6.9	11.4	5.1	7.6	3	0.8	2	MC36245
7.4	12.2	5.1	7.6	3	0.8	1	MC36246
7.4	14.2	5.1	7.6	3	0.8	1	MC36247
6.9	11.7	5.1	7.6	3	0.8	2	MC36248
8.9	13.5	5.1	7.6	3	0.8	1	MC36249
6.9	11.7	5.1	7.6	3	0.8	2	MC36250
8.9	15.2	5.1	7.6	3	0.8	1	MC36251
10.2	15.7	5.1	7.6	3	0.8	1	MC36252
11.4	18.3	5.1	7.6	3	0.8	1	MC36253

Dimensions : Millimetres

## Thermal Derating Curve

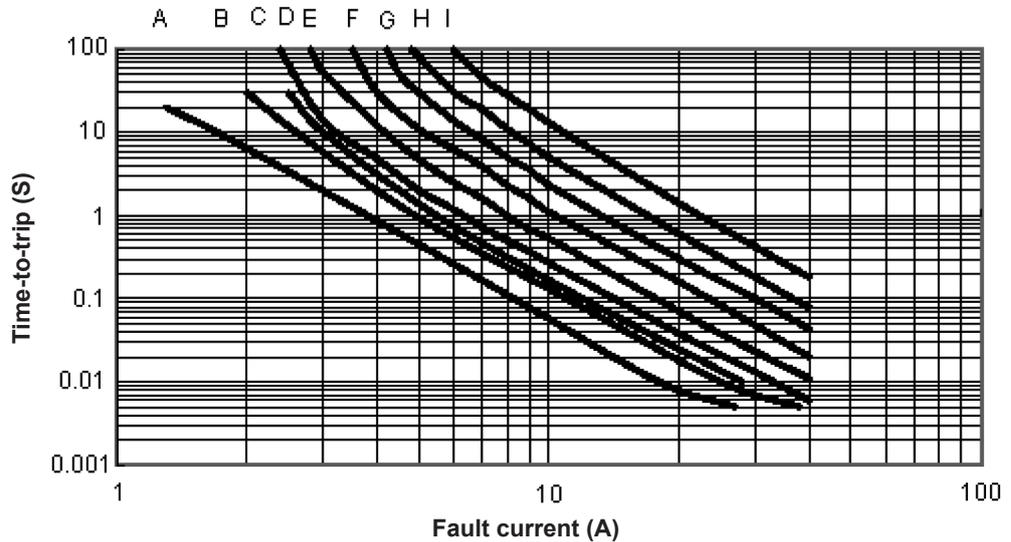


# Radial Leaded PTC Resettable Fuse



## Typical Time-To-Trip at 23°C

- A = MC36245
- B = MC36248
- C = MC36250
- D = MC36246
- E = MC36247
- F = MC36249
- G = MC36251
- H = MC36252
- I = MC36253



## Material Specification

- Lead material : Tin plated copper.
- Soldering characteristics : MIL-STD-202, Method 208E.
- Insulating coating : Flame retardant epoxy.

## Part Number Table

Description	Part Number
Radial Leaded PTC Resettable Fuse	MC36245
	MC36246
	MC36247
	MC36248
	MC36249
	MC36250
	MC36251
	MC36252
	MC36253

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