

Radial Leaded PTC Resettable Fuse



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.



UL : E-345437



Electrical Characteristics (23°C)

Hold Current	Trip Current	Maximum Time to trip		Maximum Current	Rated Voltage	Typical Power	Resistance		Part Number
							R _{Min}	R _{1Max}	
I _H , A	I _T , A	at 8A	at 5 x I _H	I _{Max} , A	V _{Max} , V dc	P _d , W	Ω	Ω	
0.75	1.30	0.4	--	40	16	0.3	0.08	0.23	MC36245
0.90	1.80	1.2	5.9	40	16/30	0.6	0.07	0.18	MC36246
1.10	2.20	2.3	6.6	40	16/30	0.7	0.05	0.14	MC36247
1.20	2.00	0.5	--	40	16	0.6	0.04	0.14	MC36248
1.35	2.70	4.5	7.3	40	16/30	0.8	0.04	0.12	MC36249
1.55	2.70	0.6	--	40	16	0.7	0.03	0.12	MC36250
1.60	3.20	9.0	8.0	40	16/30	0.9	0.03	0.11	MC36251
1.85	3.70	10.0	8.7	40	16/30	1.0	0.03	0.09	MC36252
2.50	5.00	40.0	10.3	40	16/30	1.2	0.02	0.07	MC36253

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 maximum).
 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 : 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)

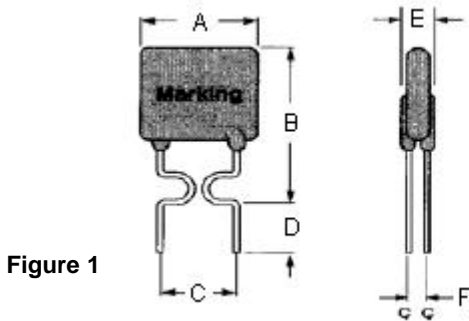


Figure 1

Lead Size : 24 AWG
Ø0.51 mm Diameter

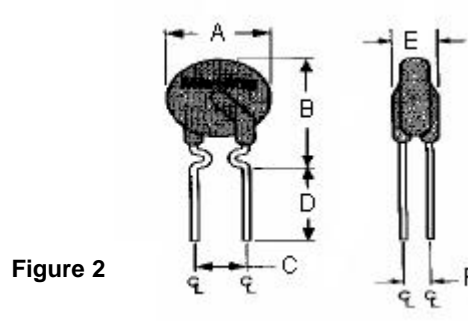


Figure 2

Lead Size : 24 AWG
Ø0.51 mm Diameter

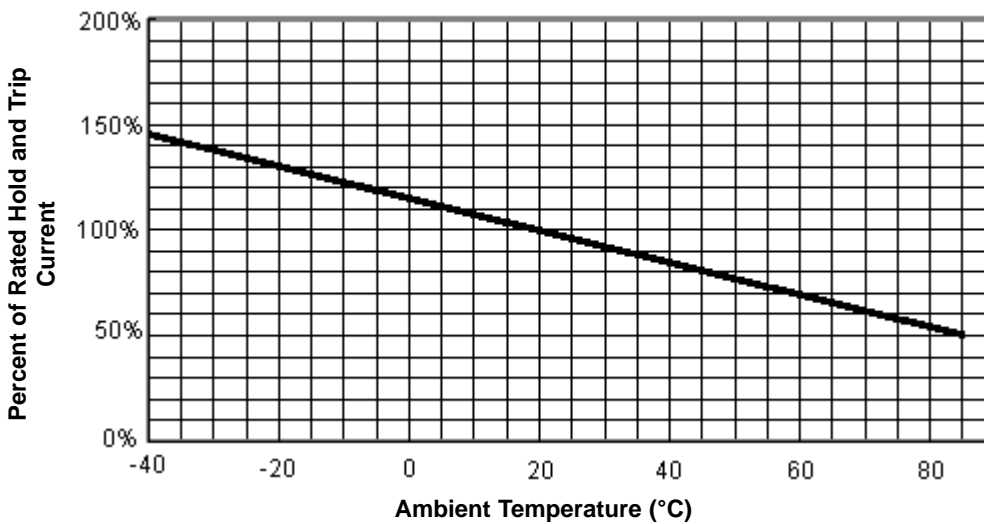
Dimensions Table

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	0.8	2	MC36245
7.4	12.2	5.1	7.6	3.0	0.8	1	MC36246
7.4	14.2	5.1	7.6	3.0	0.8	1	MC36247
6.9	11.7	5.1	7.6	3.0	0.8	2	MC36248
8.9	13.5	5.1	7.6	3.0	0.8	1	MC36249
6.9	11.7	5.1	7.6	3.0	0.8	2	MC36250
8.9	15.2	5.1	7.6	3.0	0.8	1	MC36251
10.2	15.7	5.1	7.6	3.0	0.8	1	MC36252
11.4	18.3	5.1	7.6	3.0	0.8	1	MC36253

Dimensions : Millimetres

Thermal Derating Curve

Thermal Derating Curve

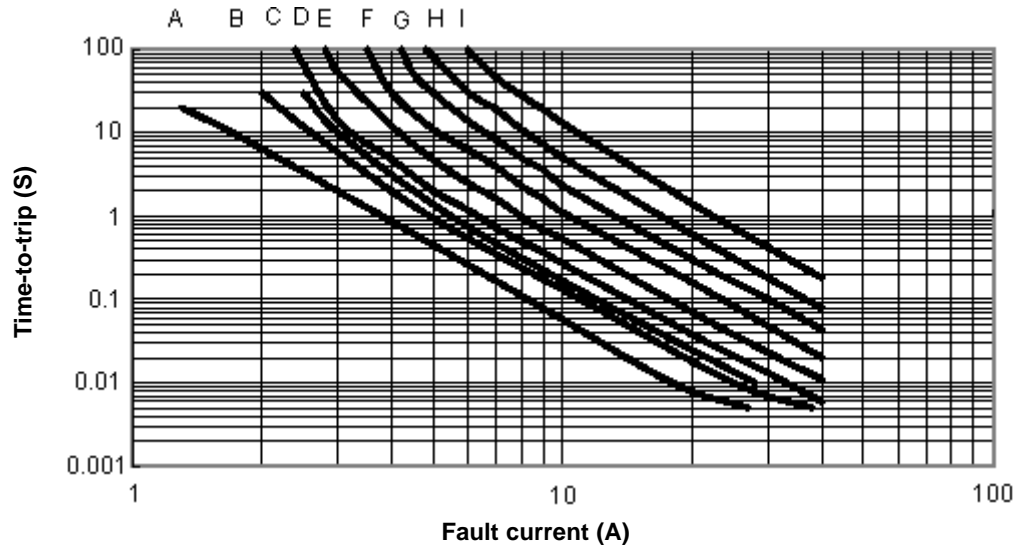


Radial Leaded PTC Resettable Fuse



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
Radial Leaded PTC Resettable Fuse	MC36246
Radial Leaded PTC Resettable Fuse	MC36247
Radial Leaded PTC Resettable Fuse	MC36248
Radial Leaded PTC Resettable Fuse	MC36249
Radial Leaded PTC Resettable Fuse	MC36250
Radial Leaded PTC Resettable Fuse	MC36251
Radial Leaded PTC Resettable Fuse	MC36252
Radial Leaded PTC Resettable Fuse	MC36253

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