

RoHS Compliant

Specifications:

Applications : Wide variety of electronic equipment.

Product features : Low hold current, solid state, radial leaded product ideal for up to 60V.

Maximum voltage : 60V.

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		
						R _{Min}	R1 _{Max}	Part Number
I _{H,} A	I _{T,} A	at 5 x I _H	I _{Max,} A	V _{Max,} V dc	P _{d,} W	Ω	Ω	
0.05	0.10	5.0	40	60	0.26	7.30	20.0	MC36183
0.20	0.40	2.2	40	60	0.41	1.83	4.40	MC36187
0.25	0.50	2.5	40	60	0.45	1.25	3.00	MC36188
0.30	0.60	3.0	40	60	0.49	0.88	2.10	MC36189
0.40	0.80	3.8	40	60	0.56	0.55	1.29	MC36191
0.50	1.00	4.0	40	60	0.77	0.50	1.17	MC36192
0.65	1.30	5.3	40	60	0.88	0.31	0.72	MC36194
0.75	1.50	6.3	40	60	0.92	0.25	0.60	MC36195
0.90	1.80	7.2	40	60	0.99	0.20	0.47	MC36196
1.10	2.20	8.2	40	60	1.50	0.15	0.38	MC36197
1.35	2.70	9.6	40	60	1.70	0.12	0.30	MC36198
1.60	3.20	11.4	40	60	1.90	0.09	0.22	MC36199
1.85	3.70	12.6	40	60	2.10	0.08	0.19	MC36200
2.50	5.00	15.6	40	60	2.50	0.05	0.13	MC36201
3.00	6.00	19.8	40	60	2.80	0.04	0.10	MC36202

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.

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





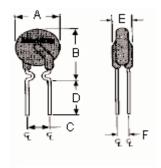


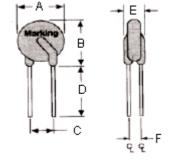
Physical specifications:

Lead material : Tin plated copper.

Soldering characteristics : MIL-STD-202, Method 208E. Insulating coating : Flame retardant epoxy.

Production Dimensions (millimetre)





FRX005-60F to FRX090-60F Lead Size : 24 AWG Ø0.51 mm Diameter

FRX110-60F to FRX300-60F Lead Size : 20 AWG Ø0.81 mm Diameter

Dimensions Table

Α	В	С	D	E	F	Part Number
Maximum	Maximum	Typical	Minimum	Maximum	Typical	
7.4	12.7	5.1	7.6	3.1	1.1	MC36183
7.4	12.7	5.1	7.6	3.1	1.1	MC36187
7.4	12.7	5.1	7.6	3.1	1.1	MC36188
7.4	13.0	5.1	7.6	3.1	1.1	MC36189
7.6	13.5	5.1	7.6	3.1	1.1	MC36191
7.9	13.7	5.1	7.6	3.1	1.1	MC36192
9.7	14.5	5.1	7.6	3.1	1.1	MC36194
10.4	15.2	5.1	7.6	3.1	1.1	MC36195
11.7	15.8	5.1	7.6	3.1	1.1	MC36196
13.0	18.0	5.1	7.6	3.1	1.4	MC36197
14.5	19.6	5.1	7.6	3.1	1.4	MC36198
16.3	21.3	5.1	7.6	3.1	1.4	MC36199
17.8	22.9	5.1	7.6	3.1	1.4	MC36200
21.3	26.4	10.2	7.6	3.1	1.4	MC36201
24.9	30.0	10.2	7.6	3.1	1.4	MC36202

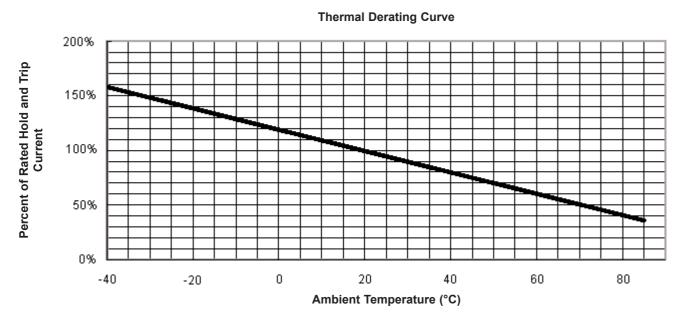
Dimensions : Millimetres



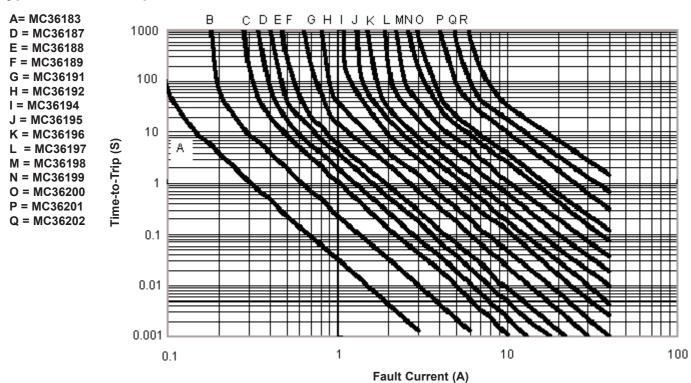




Thermal Derating Curve



Typical Time-To-Trip at 23°C







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	MC36183
Radial Leaded PTC Resettable Fuse	MC36187
Radial Leaded PTC Resettable Fuse	MC36188
Radial Leaded PTC Resettable Fuse	MC36189
Radial Leaded PTC Resettable Fuse	MC36191
Radial Leaded PTC Resettable Fuse	MC36192
Radial Leaded PTC Resettable Fuse	MC36194
Radial Leaded PTC Resettable Fuse	MC36195
Radial Leaded PTC Resettable Fuse	MC36196
Radial Leaded PTC Resettable Fuse	MC36197
Radial Leaded PTC Resettable Fuse	MC36198
Radial Leaded PTC Resettable Fuse	MC36199
Radial Leaded PTC Resettable Fuse	MC36200
Radial Leaded PTC Resettable Fuse	MC36201
Radial Leaded PTC Resettable Fuse	MC36202

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