Radial Leaded PTC Resettable Fuse







Specifications:

Lead Material : Tin plated copper

Soldering Characteristic : MIL-DTD-202, Method 208E Insulating Coating : Flame retardant epoxy

Operating Current : 50mA to 3A

Max. Voltage : 60V

Temperature Range : -40°C to 85°C

Applications : Wide variety of electronic equipment
Product features : Low hold current, solid state, radial leaded

product ideal for up to 60V.

Agency Recognition : UL File E345437

Electrical Characteristics (23°C)

Part Number	Hold	Trip Current	Max. Time to Trip	Max. Current	Rated Voltage	Typical Power	Resistance	
	Current						RMIN	R1max
	Ін, А	lτ, Α	at 5 × Iн	IMAX, A	VMAX,V DC	Pd, W	Ω	Ω
MC36183	0.05	0.1	5			0.26	7.3	20
MC33169	0.1	0.2	4			0.38	2.5	7.5
MC33170	0.17	0.34	3			0.48	2	8
MC36187	0.2	0.4	2.2			0.41	1.83	4.4
MC36188	0.25	0.5	2.5			0.45	1.25	3
MC36189	0.3	0.6	3			0.49	0.88	2.1
MC36191	0.4	0.8	3.8			0.56	0.55	1.29
MC36192	0.5	1	4			0.77	0.5	1.17
MC36194	0.65	1.3	5.3	40	60	0.88	0.31	0.72
MC36195	0.75	1.5	6.3			0.92	0.25	0.6
MC36196	0.9	1.8	7.2			0.99	0.2	0.47
MC36197	1.1	2.2	8.2			1.5	0.15	0.38
MC36198	1.35	2.7	9.6			1.7	0.12	0.3
MC36199	1.6	3.2	11.4			1.9	0.09	0.22
MC36200	1.85	3.7	12.6			2.1	0.08	0.19
MC36201	2.5	5	15.6			2.5	0.05	0.13
MC36202	3	6	19.8			2.8	0.04	0.1

Ін = 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

IMAX = Maximum fault current device can withstand without damage at rated voltage (V MAX) Pd = Typical power dissipated from device when in tripped state in 23°C still air environment

R_{MIN} = Minimum device resistance at 23°C

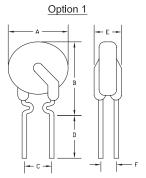
R1_{MAX} = Maximum device resistance at 23°C, 1 hour after tripping



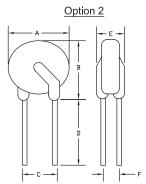
Radial Leaded PTC Resettable Fuse



Dimensions



Lead Size : 24AWG ø0.51mm Diameter

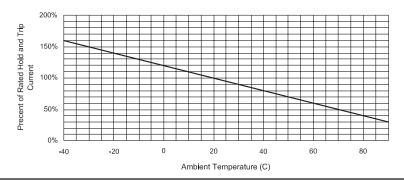


Lead Size : 20AWG Ø0.81mm Diameter

Part Number	A Max.	B Max.	C Typical	D Min.	E Max.	F Typical	Drawing Option
MC36183							
MC33169							
MC33170	7.4	12.7				1.1	Option 1
MC36187] /.4						
MC36188							
MC36189		13					
MC36191	7.6	13.5					
MC36192	7.9	13.7	5.1	7.6	3.1		
MC36194	9.7	14.5					
MC36195	10.4	15.2					
MC36196	11.7	15.8					
MC36197	13	18					
MC36198	14.5	19.6					
MC36199	16.3	21.3 22.9]			1.4	Option 2
MC36200	17.8						
MC36201	21.3	21.3 26.4	10.2]			
MC36202	24.9	30	10.2				

Dimensions: Millimetres

Thermal Derating Curve



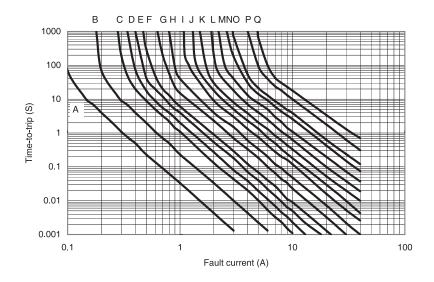
www.element14.com www.farnell.com www.newark.com



Radial Leaded PTC Resettable Fuse



Typical Time-To-Trip at 23°C



A = MC36183= MC33169 = MC33170 = MC36187 = MC36188 = MC36189 = MC36191 = MC36192 = MC36194 = MC36195 = MC36196 = MC36197 = MC36198 = MC36199 = MC36200 = MC36201 Q = MC36202

Part Number Table

Description	Part Number
50mA Radial Leaded PTC Resettable Fuse	MC36183
100mA Radial Leaded PTC Resettable Fuse	MC33169
170mA Radial Leaded PTC Resettable Fuse	MC33170
200mA Radial Leaded PTC Resettable Fuse	MC36187
250mA Radial Leaded PTC Resettable Fuse	MC36188
300mA Radial Leaded PTC Resettable Fuse	MC36189
400mA Radial Leaded PTC Resettable Fuse	MC36191
500mA Radial Leaded PTC Resettable Fuse	MC36192
650mA Radial Leaded PTC Resettable Fuse	MC36194
750mA Radial Leaded PTC Resettable Fuse	MC36195
900mA Radial Leaded PTC Resettable Fuse	MC36196
1.1A Radial Leaded PTC Resettable Fuse	MC36197
1.35A Radial Leaded PTC Resettable Fuse	MC36198
1.6A Radial Leaded PTC Resettable Fuse	MC36199
1.85A Radial Leaded PTC Resettable Fuse	MC36200
2.5A Radial Leaded PTC Resettable Fuse	MC36201
3A Radial Leaded PTC Resettable Fuse	MC36202

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