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 : 100mA to 3.75A Max. Voltage : Up to 90V

Temperature Range : -40°C to 85°C

Applications : Telecom and wide variety of electronic equipment Product features : Low hold current, Solid state, Radial leaded product

ideal for up to 90V

Agency Recognition : UL File E345437

Electrical Characteristics (23°C)

	Hold	Trip Current	Max. Time to Trip	Max. Current	Rated Voltage	Typical Power	Resistance	
Part Number	Current						RMIN	R1max
	Ін, А	Iτ, Α	at 5 × Iн	IMAX, A	VMAX,V DC	Pd, W	Ω	Ω
MC36184	0.1	0.2	4		72/90	0.38	2.5	7.5
MC36185	0.15	0.35	10			0.7	2.4	7
MC36186	0.17	0.34	3			0.48	2	8
MC33171	0.2	0.4	2.2	40		0.41	1.83	4.4
MC33172	0.25	0.5	2.5			0.45	1.25	3
MC33173	0.3	0.6	3			0.49	0.88	2.1
MC36190	0.35	0.75	10			1.3	0.7	2.5
MC33174	0.4	0.8	3.8			0.56	0.55	1.29
MC33175	0.5	1	4			0.77	0.5	1.17
MC36193	0.55	1.2	10			1.5	0.4	1.5
MC33176	0.65	1.3	5.3	40	72/90	0.88	0.31	0.72
MC33177	0.75	1.5	6.3			0.92	0.25	0.6
MC33178	0.9	1.8	7.2			0.99	0.2	0.47
MC33179	1.1	2.2	8.2			1.5	0.15	0.38
MC33180	1.35	2.7	9.6			1.7	0.12	0.3
MC33181	1.6	3.2	11.4			1.9	0.09	0.22
MC33182	1.85	3.7	12.6			2.1	0.08	0.19
MC33183	2.5	5	15.6			2.5	0.05	0.13
MC33184	3	6	19.8			2.8	0.04	0.1
MC33185	3.75	7.5	24			3.2	0.03	0.08

Page <1>

 $\mbox{\sc lh}$ = Hold current-maximum current at which the device will not trip at 23 $^{\circ}\mbox{\sc C}$ still air

l_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)

Pd = Typical power dissipated from device when in tripped state in 23°C still air environment

RMIN = Minimum device resistance at 23°C

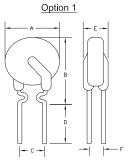
R1MAX = Maximum device resistance at 23°C, 1 hour after tripping



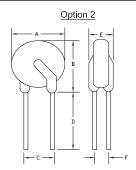
Radial Leaded PTC Resettable Fuse



Dimensions



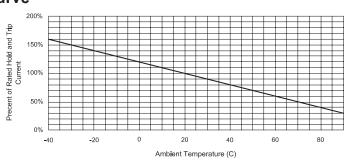
Lead Size : 24AWG Ø0.51mm Diameter



Lead Size : 20AWG Ø0.81mm Diameter

Part Number	A Max.	B Max.	C Typical	D Min.	E Max.	F Typical	Drawing Option
MC36184							
MC36185	1						
MC36186		12.7					
MC33171	7.4						
MC33172							
MC33173		13	1				
MC36190	1	12.7	1			1.1	Option 1
MC33174	7.6	13.5	1				
MC33175	7.9	13.7	5.1				
MC36193	9.7	14]	7.0	3.1		
MC33176	9.7	14.5]	7.6	3.1		
MC33177	10.4	15.2]				
MC33178	11.7	15.8]				
MC33179	13	18	1				
MC33180	14.5	19.6	1				
MC33181	16.3	21.3]				
MC33182	17.8	22.9				1.4	Option 2
MC33183	21.3	26.4					
MC33184	24.9	30	10.2				
MC33185	28.5	33.5]				

Thermal Derating Curve



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



Dimensions: Millimetres

Radial Leaded PTC Resettable Fuse



Typical Time-To-Trip at 23°C



Α	= MC36184	K	= MC33176
В	= MC36185	L	= MC33177
С	= MC36186	M	= MC33178
D	= MC33171	N	= MC33179
Ε	= MC33172	0	= MC33180
F	= MC33173	Р	= MC33181
G	= MC36190	Q	= MC33182
Н	= MC33174	R	= MC33183
I	= MC33175	S	= MC33184
J	= MC36193	Т	= MC33185

Part Number Table

Description	Part Number
100mA Radial Leaded PTC Resettable Fuse	MC36184
150mA Radial Leaded PTC Resettable Fuse	MC36185
170mA Radial Leaded PTC Resettable Fuse	MC36186
200mA Radial Leaded PTC Resettable Fuse	MC33171
250mA Radial Leaded PTC Resettable Fuse	MC33172
300mA Radial Leaded PTC Resettable Fuse	MC33173
350mA Radial Leaded PTC Resettable Fuse	MC36190
400mA Radial Leaded PTC Resettable Fuse	MC33174
500mA Radial Leaded PTC Resettable Fuse	MC33175
550mA Radial Leaded PTC Resettable Fuse	MC36193
650mA Radial Leaded PTC Resettable Fuse	MC33176
750mA Radial Leaded PTC Resettable Fuse	MC33177
900mA Radial Leaded PTC Resettable Fuse	MC33178
1.1A Radial Leaded PTC Resettable Fuse	MC33179
1.35A Radial Leaded PTC Resettable Fuse	MC33180
1.6A Radial Leaded PTC Resettable Fuse	MC33181
1.85A Radial Leaded PTC Resettable Fuse	MC33182
2.5A Radial Leaded PTC Resettable Fuse	MC33183
3A Radial Leaded PTC Resettable Fuse	MC33184
3.75A Radial Leaded PTC Resettable Fuse	MC33185

Important Notice: This data sheet and its contents (the "Information") belong to the members of the Premier Farnell group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp is the registered trademark of the Group. © Premier Farnell plc 2012.



