

RoHS
Compliant

Application

Telecom and wide variety of electronic equipment

Features

- Low hold current
- Solid state
- Radial leaded product ideal for up to 90V
- UL Approved



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

Electrical Characteristics (23°C)

Part Number	Hold Current I _H , A	Trip Current I _T , A	Max. Time to trip at 5×I _H , S	Max. Current I _{MAX} , A	Rated Voltage V _{MAX} , V DC	Typ. Power Pd, W	Resistance	
							R _{MIN} Ω	R _{1MAX} Ω
MC33171	0.2	0.4	2.2	40	72/90	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
MC33174	0.4	0.8	3.8			0.56	0.55	1.29
MC33175	0.5	1	4			0.77	0.5	1.17
MC33177	0.75	1.5	6.3			0.92	0.25	0.6
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
MC33185	3.75	7.5	24			3.2	0.03	0.08

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.

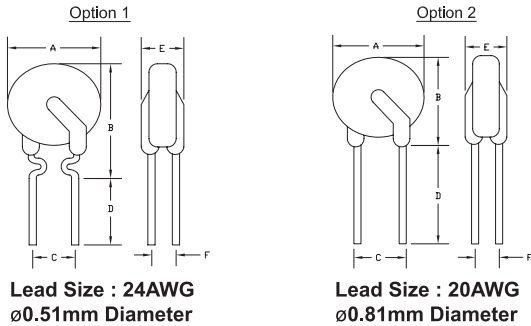
I_{MAX} = Maximum fault current device can withstand without damage at rated voltage (V max).

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.

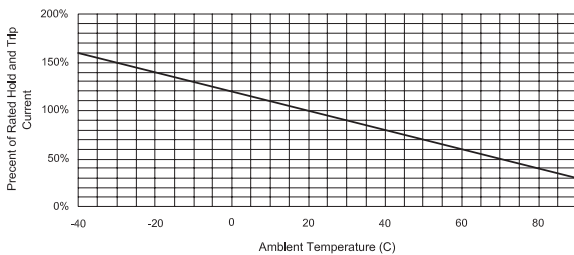
Diagram



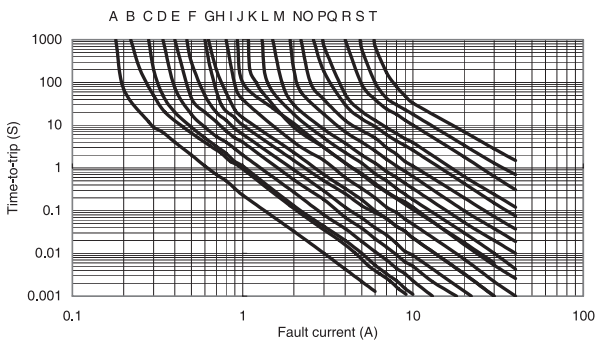
Part Number	Drawing Option	A	B	C	D	E	F	
		Maximum	Maximum	Typical	Minimum	Maximum	Typical	
MC33171	Option 1	7.4	12.7	5.1	7.6	3.1	1.1	
MC33172			13					
MC33173			13.5					
MC33174			13.7					
MC33175			15.2					
MC33177	Option 2	17.8	22.9	10.2	7.6	3.1	1.4	
MC33182								26.4
MC33183								28.5
MC33185								33.5

Dimensions : Millimetres

Thermal Derating Curve



Typical Time-To-Trip at 23°C



D = MC33171
E = MC33172
F = MC33173
H = MC33174
I = MC33175
L = MC33177
Q = MC33182
R = MC33183
T = MC33185

Part Number Table

Description	Part Number
200mA Radial Leaded PTC Resettable Fuse	MC33171
250mA Radial Leaded PTC Resettable Fuse	MC33172
300mA Radial Leaded PTC Resettable Fuse	MC33173
400mA Radial Leaded PTC Resettable Fuse	MC33174
500mA Radial Leaded PTC Resettable Fuse	MC33175
750mA Radial Leaded PTC Resettable Fuse	MC33177
1.85A Radial Leaded PTC Resettable Fuse	MC33182
2.5A Radial Leaded PTC Resettable Fuse	MC33183
3.75A Radial Leaded PTC Resettable Fuse	MC33185

Important Notice : This data sheet and its contents (the "Information") belong to the members of the AVNET 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 Pro is the registered trademark of Premier Farnell Limited 2019.