

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

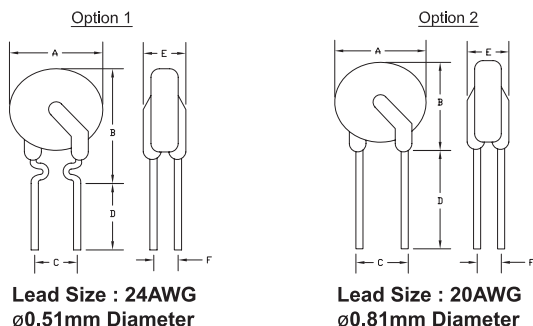
Lead Material	: Tin plated copper
Soldering Characteristic	: MIL-DTD-202, Method 208E
Insulating Coating	: Flame retardant epoxy
Operating Current	: 100mA to 3.75A
Max. Voltage	: Up to 90V
Temperature Range	: -40°C to 85°C

Electrical Characteristics (23°C)

Part Number	Hold Current	Trip Current	Max. Time to trip	Max. Current	Rated Voltage	Typ. Power	Resistance	
							R _{MIN}	R _{1MAX}
	I _H , A	I _T , A	at 5×I _H , S	I _{MAX} , A	V _{MAX} , V DC	P _d , W	Ω	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.

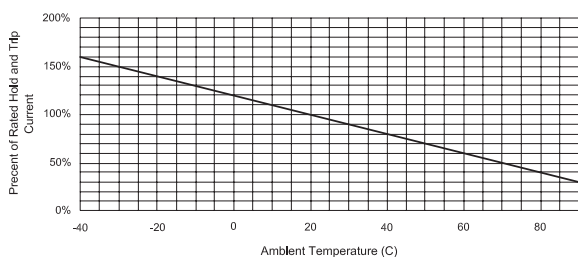
Diagram



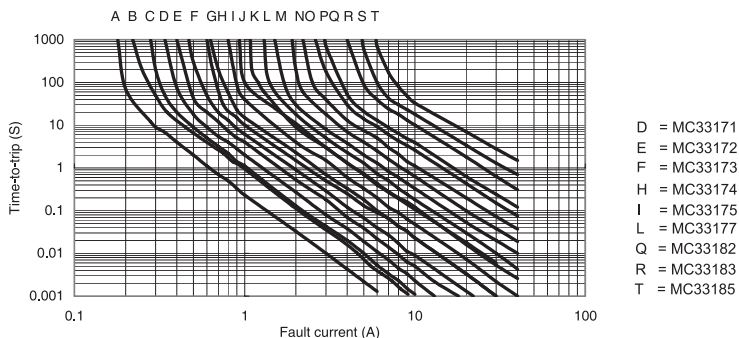
Part Number	Drawing Option	A	B	C	D	E	F
		Maximum	Maximum	Typical	Minimum	Maximum	Typical
MC33171	Option 1	7.4	12.7	5.1	7.6	3.1	1.1
MC33172			13				
MC33173		7.6	13.5				
MC33174			13.7				
MC33175		10.4	15.2				
MC33177	Option 2	17.8	22.9	10.2	7.6	3.1	1.4
MC33182		21.3	26.4				
MC33183		28.5	33.5				
MC33185							

Dimensions : Millimetres

Thermal Derating Curve



Typical Time-To-Trip at 23°C



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

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