

Radial Leaded PTC Resettable Fuse



Specifications:

Applications : Wide variety of electronic equipment
Product features : Very low resistance, very high hold current, solid state,
Radial leaded product ideal for up to 16V
Maximum voltage : 16V
Temperature range : -40°C to 85°C



Electrical Characteristics (23°C)

Hold Current	Trip Current	Maximum Time to trip	Maximum Current	Rated Voltage	Typical Power	Resistance		Part Number
						R minimum	R1 maximum	
I_H , A	I_T , A	at $5 \times I_H$	I Maximum, A	V maximum, V dc	P_d , W	ohms	ohms	
2.5	4.7	5.0	100	16	1.0	0.022	0.053	MC36177
6.0	10.2	5.8			2.8	0.009	0.033	MC36178
7.0	11.9	8.0			3.0	0.006	0.021	MC36179
8.0	13.6	9.0				0.005	0.018	MC36180
9.0	15.3	12.0			3.3	0.004	0.015	MC36181
10.0	17.0	12.5				0.003	0.012	MC36176

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 .

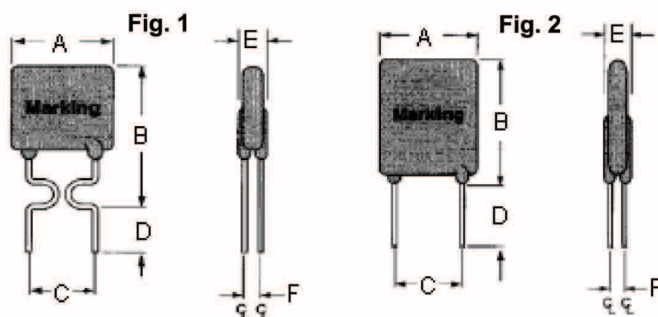
Physical specifications:

Lead material : Tin plated copper.

Soldering characteristics : MIL-STD-202, Method 208E.

Insulating coating : Flame retardant epoxy.

Production Dimensions (millimetre)



Lead Size : 24 AWG
Ø0.51 mm Diameter

Lead Size : 20 AWG
Ø0.81 mm Diameter

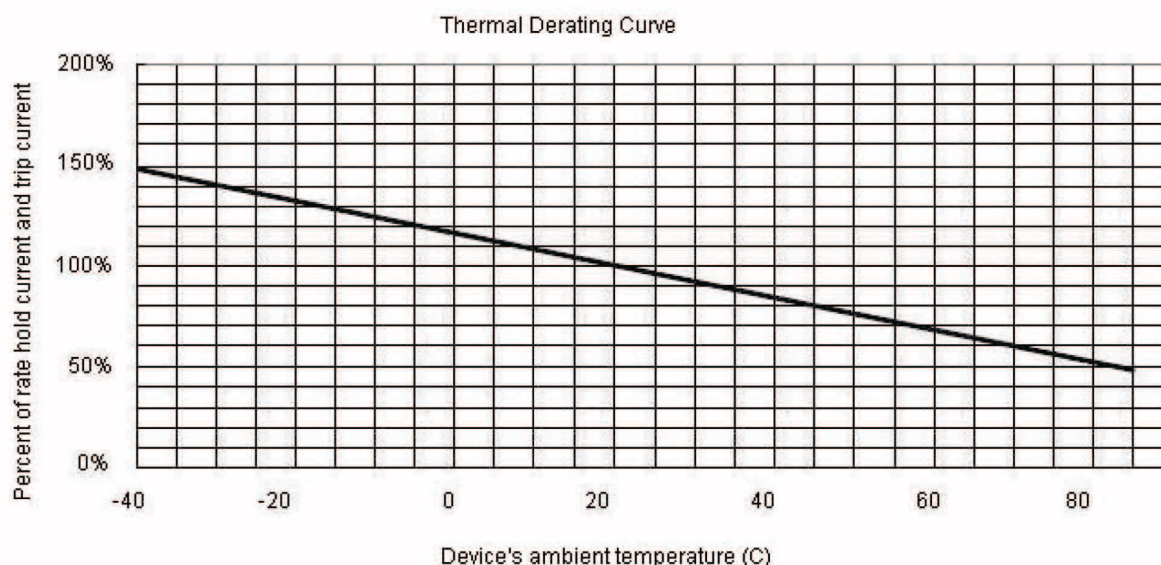
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Specifications Table

A	B	C	D	E	F	Part Number	Figure
Maximum	Maximum	Typical	Minimum	Maximum	Typical		
8.9	12.8	5.1	7.6	3.0	1.2	MC36177	1
10.7	17.1					MC36178	2
11.2	19.7					MC36179	2
12.7	20.9					MC36180	2
14.0	21.7					MC36187	2
16.5	24.1					MC36176	2

Thermal Derating Curve



Typical Time-To-Trip at 23°C

A = MC36177
E = MC36178
F = MC36179
G = MC36180
H = MC36181
I = MC36176

