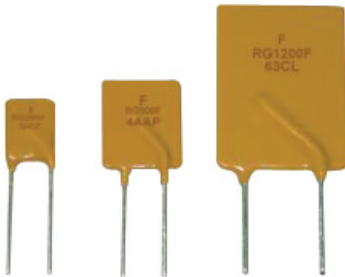


# Resettable Fuse



## 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
Max. Voltage	: 16V
Temperature Range	: -40°C to +85°C

## Electrical Characteristics (23°C)

Hold Current	Trip Current	Max. Time to trip	Max. Current	Rated Voltage	Typical Power	Resistance		Part Number
						R Min.	R1 Max.	
$I_H$ , A	$I_T$ , A	at $5x I_H$	$I_{MAX}$ , A	$V_{MAX}$ , V DC	$P_d$ , W	ohms	ohms	
2.5	4.7	5	100	16	1	0.022	0.053	MC36177
6	10.2	5.8			2.8	0.009	0.033	MC36178
7	11.9	8			3	0.006	0.021	MC36179
8	13.6	9				0.005	0.018	MC36180
9	15.3	12			3.3	0.004	0.015	MC36181
10	17	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:

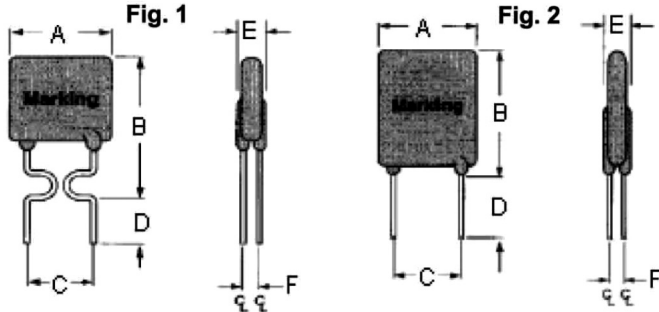
- Lead Material : Tin plated copper,
- Soldering Characteristics : MIL-STD-202, Method 208E
- Insulating Coating : Flame retardant epoxy



# Resettable Fuse



## Production Dimensions



Lead Size : 24 AWG  
Ø0.51mm Diameter

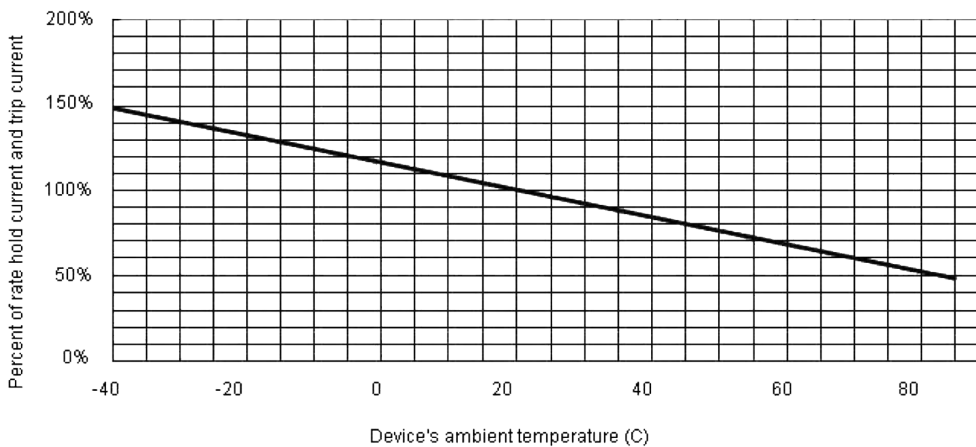
Lead Size : 20 AWG  
Ø0.81mm Diameter

A	B	C	D	E	F	Part Number	Figure
Max.	Max.	Typical	Min.	Max.	Typical		
8.9	12.8	5.1	7.6	3	1.2	MC36177	1
10.7	17.1					MC36178	2
11.2	19.7					MC36179	2
12.7	20.9					MC36180	2
14	21.7					MC36187	2
16.5	24.1					MC36176	2

Dimensions : Millimetres

## Thermal Derating Curve

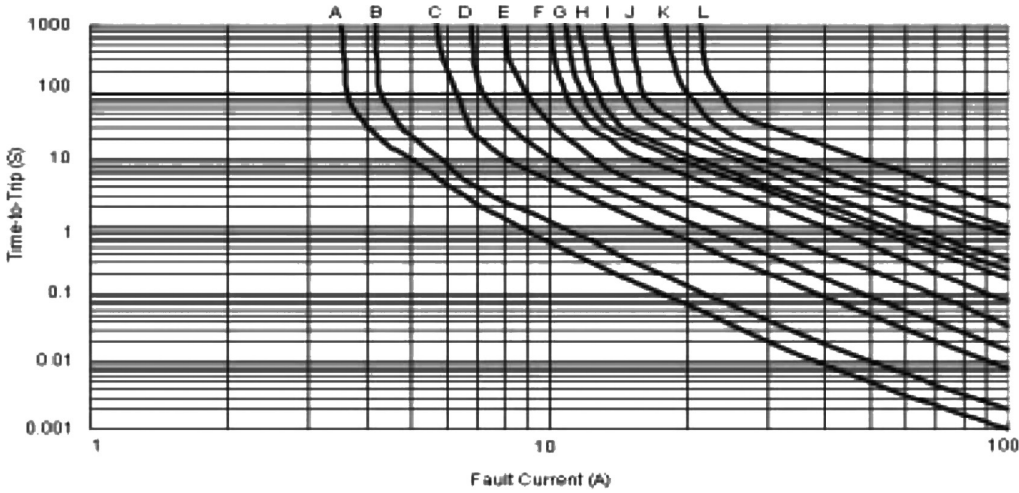
Thermal Derating Curve



# Resettable Fuse



## Typical Time-To-Trip at 23°C



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

### Part Number Table

Description	Part Number
Radial Leaded PTC Resettable Fuse	MC36177
	MC36178
	MC36179
	MC36180
	MC36181
	MC36176

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