

# 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  
 Operation Current : 50mA to 3A  
 Maximum Voltage : 60V  
 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 $5x I_H$	I Maximum, A	V maximum, V dc	$P_d$ , W	ohms	ohms	
0.05	0.10	5.0	40	60	0.26	7.30	20.0	MC36183
0.20	0.40	2.2			0.41	1.83	4.40	MC36187
0.25	0.50	2.5			0.45	1.25	3.00	MC36188
0.30	0.60	3.0			0.49	0.88	2.10	MC36189
0.40	0.80	3.8			0.56	0.55	1.29	MC36191
0.50	1.00	4.0			0.77	0.50	1.17	MC36192
0.65	1.30	5.3			0.88	0.31	0.72	MC36194
0.75	1.50	6.3			0.92	0.25	0.60	MC36195
0.90	1.80	7.2			0.99	0.20	0.47	MC36196
1.10	2.20	8.2			1.50	0.15	0.38	MC36197
1.35	2.70	9.6			1.70	0.12	0.30	MC36198
1.60	3.20	11.4			1.90	0.09	0.22	MC36199
1.85	3.70	12.6			2.10	0.08	0.19	MC36200
2.50	5.00	15.6			2.50	0.05	0.13	MC36201
3.00	6.00	19.8			2.80	0.04	0.10	MC36202

$I_H$  = 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, 24 AWG.  
 Tin plated copper, 20 AWG.  
 Soldering characteristics : MIL-STD-202, Method 208E.  
 Insulating coating : Flame retardant epoxy.

<http://www.farnell.com>  
<http://www.newark.com>  
<http://www.cpc.co.uk>

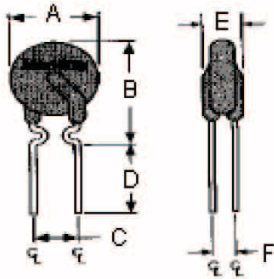


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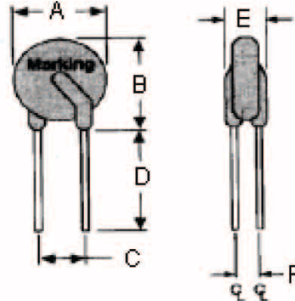
## Production Dimensions (millimetre)

Fig 1



Lead Size : 24 AWG  
Ø0.51 mm Diameter

Fig 2



Lead Size : 20 AWG  
Ø0.81 mm Diameter

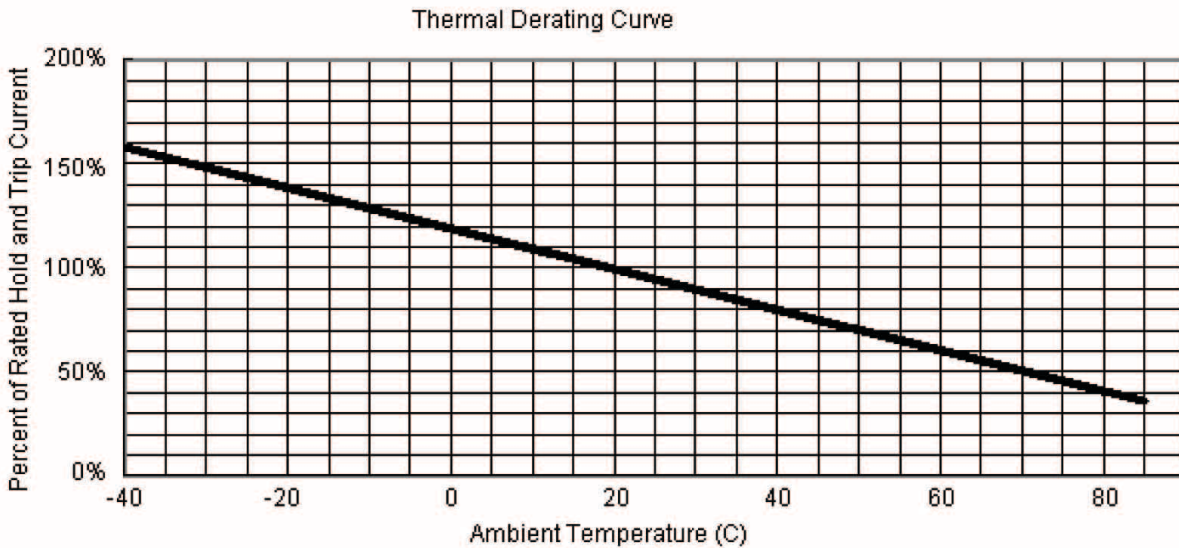
## Specification Table

A	B	C	D	E	F	Part Number	Figure
Maximum	Maximum	Typical	Minimum	Maximum	Typical		
7.4	12.7	5.1	7.6	3.1	1.1	MC36183	1
	13.0					MC36187	
7.6	13.5					MC36188	
	13.7					MC36189	
7.9	14.5					MC36191	
9.7	15.2					MC36192	
10.4	15.8					MC36194	
11.7	18.0					MC36195	
13.0	19.6					MC36196	
14.5	21.3					10.2	
16.3	19.6	MC36198					
17.8	21.3	MC36199					
21.3	22.9	MC36200					
24.9	26.4	MC36201					
	30.0				MC36202		

# Radial Leaded PTC Resettable Fuse



## Thermal Derating Curve



## Typical Time-To-Trip at 23°C

- A=MC36183
- D=MC36187
- E=MC36188
- F=MC36189
- G=MC36191
- H=MC36192
- I=MC36194
- J=MC36195
- K=MC36196
- L=MC36197
- M=MC36198
- N=MC36199
- O=MC36200
- P=MC36201
- Q=MC36202

