

# Radial Leaded PTC Resettable Fuse



## Specifications:

Applications : Low voltage USB equipment and Computers & peripherals  
 Product Features : Low resistance, Fast trip time, Low trip-to-hold ratio  
 Operation Current : 750mA to 2.5A  
 Maximum Voltage : 16V/30V  
 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 8A	at 5x $I_H$	I Maximum, A	V maximum, V dc	Pd, W	ohms	ohms	
0.75	1.30	0.4	--	40	16	0.3	0.08	0.23	MC36245
0.90	1.80	1.2	5.9		16/30	0.6	0.07	0.18	MC36246
1.10	2.20	2.3	6.6		16	0.6	0.04	0.14	MC36247
1.20	2.00	0.5	--						MC36248
1.35	2.70	4.5	7.3		16/30	0.8	0.03	0.12	MC36249
1.55		0.6	--		16	0.7			MC36250
1.60	3.20	9.0	8.0		16/30	0.9	0.09	0.11	MC36251
1.85	3.70	10.0	8.7			1.0		0.09	MC36252
2.50	5.00	40.0	10.3			1.2		0.07	MC36253

$I_H$  = 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).  
 Pd = 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 .

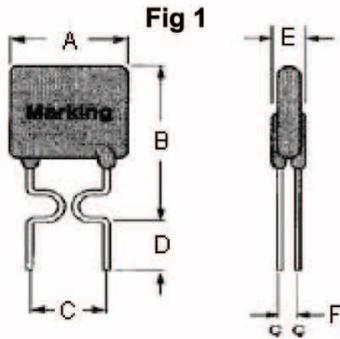
## Physical specifications:

Lead material :Tin plated copper,24 AWG.  
 Soldering characteristics :Solder ability per ANSI/J-STD 002  
 Solder heat withstand per IEC 68-2-20  
 Insulating coating :Flame retardant epoxy polymer.

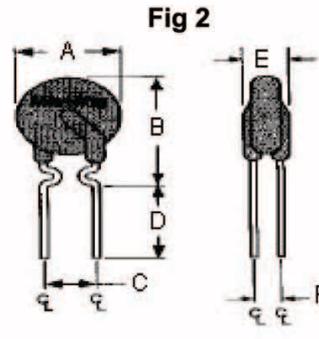
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## Production Dimensions (millimeter)



Lead Size : 24 AWG  
Ø0.51 mm Diameter

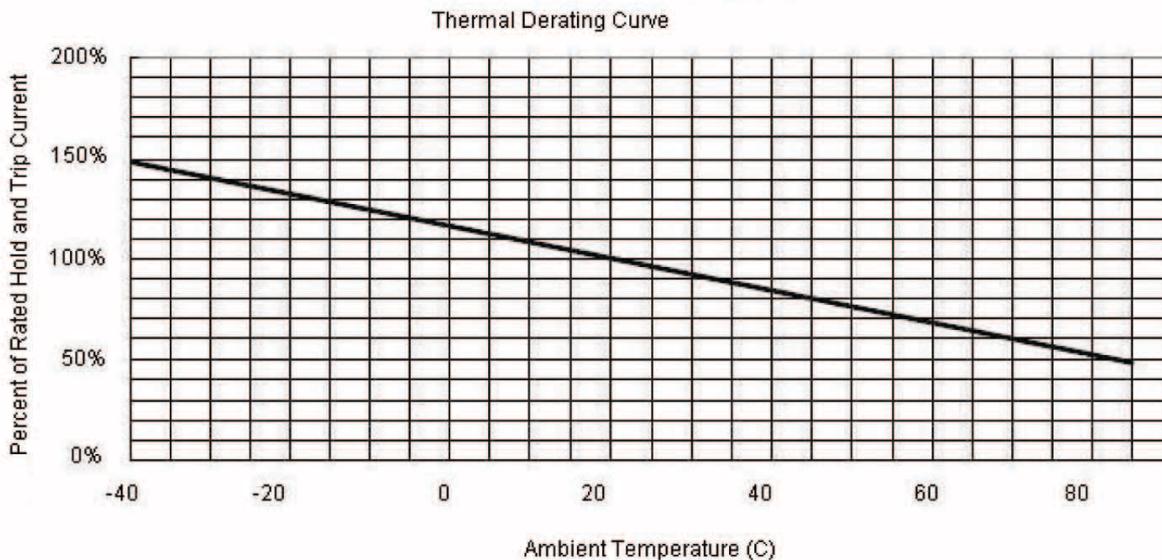


Lead Size : 24 AWG  
Ø0.51 mm Diameter

## Specification Table

A	B	C	D	E	F	Part Number	Fig
Maximum	Maximum	Typical	Minimum	Maximum	Typical		
6.9	11.4	5.1	7.6	3.0	0.8	MC36245	2
7.4	12.2					MC36246	1
	14.2					MC36247	1
6.9	11.7					MC36248	2
8.9	13.5					MC36249	1
6.9	11.7					MC36250	2
8.9	15.2					MC36251	1
10.2	15.7					MC36252	1
11.4	18.3					MC36253	1

## Thermal Derating Curve



# Radial Leaded PTC Resettable Fuse



## Typical Time-To-Trip at 23°C

**A=MC36245**  
**B=MC36248**  
**C=MC36250**  
**D=MC36246**  
**E=MC36247**  
**F=MC36249**  
**G=MC36251**  
**H=MC36252**  
**I=MC36253**



## Material Specification

Lead material : Tin plated copper, 24 AWG.  
 Soldering characteristics : MIL-STD-202, Method 208E.  
 Insulating coating : Flame retardant epoxy,

## Part Number Table

Description	Part Number
Radial Leaded PTC Resettable Fuse	MC36245
Radial Leaded PTC Resettable Fuse	MC36246
Radial Leaded PTC Resettable Fuse	MC36247
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Radial Leaded PTC Resettable Fuse	MC36253

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