

# Radial Leaded PTC Resettable Fuse **multicomp**PRO

RoHS  
Compliant



## Applications

Line Voltage Power Supply, Transformer and Appliances

## Features

- Low hold current, solid state, Radial leaded product ideal for up to 265V AC/DC.
- Operation Current from 0.05A to 2A
- Maximum Voltage 240V AC/DC
- Maximum Interrupt Voltage 265V AC/DC
- Temperature range: -40°C to +85°C for MC011373 to MC011380  
-20°C to +85°C for MC011381 to MC011385
- Approval: UL Approved

## Electrical Characteristics (23°C)

| Part Number | Hold Current       | Trip Current       | Max. Time to trip       | Max. Current         | Rated Voltage              | Max. Int. Voltage            | Typ. Power         | Resistance       |                   |
|-------------|--------------------|--------------------|-------------------------|----------------------|----------------------------|------------------------------|--------------------|------------------|-------------------|
|             | I <sub>H</sub> , A | I <sub>T</sub> , A | at 5×I <sub>H</sub> , S | I <sub>MAX</sub> , A | V <sub>MAX</sub> , V AC/DC | V <sub>I-MAX</sub> , V AC/DC | P <sub>d</sub> , W | R <sub>MIN</sub> | R <sub>1MAX</sub> |
| MC011373    | 0.05               | 0.12               | 15                      | 1                    | 240                        | 265                          | 0.7                | 18.5             | 65                |
| MC011374    | 0.08               | 0.19               | 15                      | 1.2                  | 240                        | 265                          | 0.8                | 7.4              | 26                |
| MC011375    | 0.12               | 0.3                | 15                      | 1.2                  | 240                        | 265                          | 1                  | 3                | 12                |
| MC011376    | 0.16               | 0.37               | 15                      | 2                    | 240                        | 265                          | 1.4                | 2.5              | 7.8               |
| MC011377    | 0.25               | 0.56               | 18.5                    | 3.5                  | 240                        | 265                          | 1.5                | 1.3              | 3.8               |
| MC011378    | 0.33               | 0.74               | 21                      | 4.5                  | 240                        | 265                          | 1.7                | 0.83             | 2.6               |
| MC011379    | 0.4                | 0.9                | 24                      | 5.5                  | 240                        | 265                          | 2                  | 0.6              | 1.9               |
| MC011380    | 0.55               | 1.25               | 26                      | 7                    | 240                        | 265                          | 3.4                | 0.45             | 1.45              |
| MC011381    | 0.75               | 1.5                | 18                      | 7.5                  | 240                        | 265                          | 2.6                | 0.32             | 0.84              |
| MC011382    | 1                  | 2                  | 21                      | 10                   | 240                        | 265                          | 2.9                | 0.22             | 0.58              |
| MC011383    | 1.25               | 2.5                | 23                      | 12.5                 | 240                        | 265                          | 3.3                | 0.17             | 0.44              |
| MC011384    | 1.5                | 3                  | 23                      | 15                   | 240                        | 265                          | 3.7                | 0.12             | 0.32              |
| MC011385    | 2                  | 4                  | 28                      | 20                   | 240                        | 265                          | 4.5                | 0.09             | 0.22              |

**I<sub>H</sub>** = Hold current-maximum current at which the device will not trip at 23°C still air.

**I<sub>T</sub>** = Trip current-minimum current at which the device will always trip at 23°C still air.

**V<sub>MAX</sub>** = Maximum voltage device can withstand without damage at its rated current.

**I<sub>MAX</sub>** = Maximum fault current device can withstand without damage at rated voltage (V max).

**P<sub>d</sub>** = Typical power dissipated from device when in the tripped state in 23°C still air environment.

**R<sub>MIN</sub>** = Minimum device resistance at 23°C.

**R<sub>1MAX</sub>** = Maximum device resistance at 23°C 1 hour after tripping.

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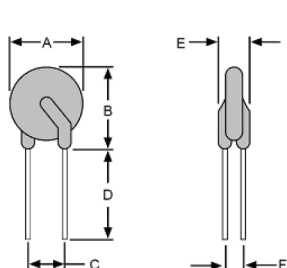
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## Physical Specifications

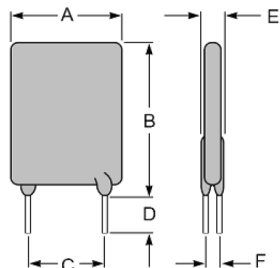
|                           |                                                                                                                                                                                                                                                                      |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lead Material             | : MC011373, MC011374, MC011375 & MC011376 - Electrolytic tin plated copper, 24AWG.<br>MC011377, MC011378 & MC011379 - Electrolytic tin plated copper, 22AWG.<br>MC011380, MC011381, MC011382, MC011383, MC011384 & MC011385 - Electrolytic tin plated copper, 20AWG. |
| Soldering Characteristics | : MIL-STD-202, Method 208E.                                                                                                                                                                                                                                          |
| Insulating Coating        | : Flame retardant epoxy, meets UL-94V-0 requirement.                                                                                                                                                                                                                 |

## Dimensions



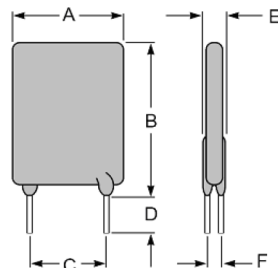
**Figure 1**

Lead Size: 24AWG  
Φ0.51mm Diameter



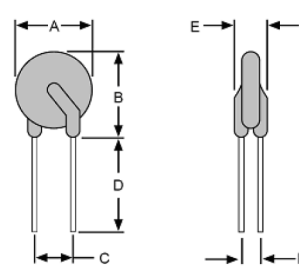
**Figure 2**

Lead Size: 22AWG  
Φ0.65mm Diameter



**Figure 3**

Lead Size: 20AWG  
Φ0.81mm Diameter



**Figure 4**

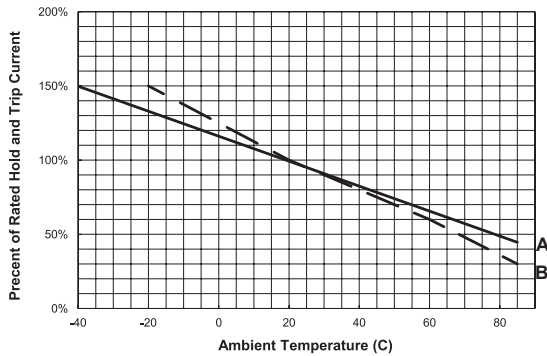
Lead Size: 20AWG  
Φ0.81mm Diameter

| Part Number | Figure | A       | B       | C       | D       | E       | F       |
|-------------|--------|---------|---------|---------|---------|---------|---------|
|             |        | Maximum | Maximum | Typical | Minimum | Maximum | Typical |
| MC011373    | 1      | 8.3     | 10.7    | 5.1     | 7.6     | 3.8     | 1.6     |
| MC011374    | 1      | 8.3     | 10.7    | 5.1     | 7.6     | 3.8     | 1.6     |
| MC011375    | 1      | 8.3     | 10.7    | 5.1     | 7.6     | 3.8     | 1.6     |
| MC011376    | 1      | 9.9     | 12.5    | 5.1     | 7.6     | 3.8     | 1.6     |
| MC011377    | 2      | 9.6     | 17.4    | 5.1     | 7.6     | 3.8     | 1.8     |
| MC011378    | 2      | 11.4    | 16.5    | 5.1     | 7.6     | 3.8     | 1.8     |
| MC011379    | 2      | 11.5    | 19.5    | 5.1     | 7.6     | 3.8     | 1.8     |
| MC011380    | 3      | 14      | 21.7    | 5.1     | 7.6     | 4.1     | 1.9     |
| MC011381    | 3      | 11.5    | 23.4    | 5.1     | 7.6     | 4.8     | 1.9     |
| MC011382    | 4      | 18.7    | 24.4    | 10.2    | 7.6     | 5.1     | 1.9     |
| MC011383    | 4      | 21.2    | 27.4    | 10.2    | 7.6     | 5.3     | 1.9     |
| MC011384    | 4      | 23.4    | 30.9    | 10.2    | 7.6     | 5.3     | 1.9     |
| MC011385    | 3      | 24.9    | 33.8    | 10.2    | 7.6     | 6.1     | 1.9     |

Dimensions : Millimetres

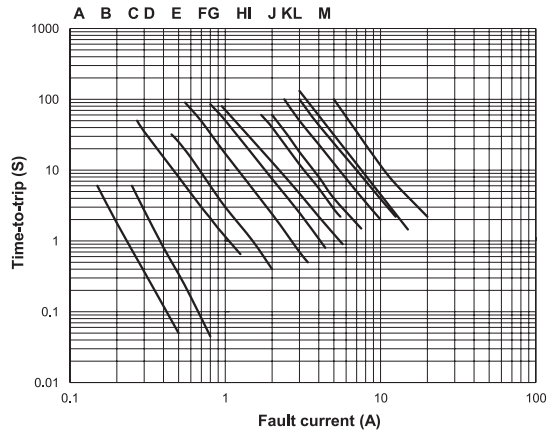
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## Thermal Derating Curve



**A:** MC011373  
MC011374  
MC011375  
MC011376  
MC011377  
MC011378  
MC011379  
MC011380  
**B:** MC011381  
MC011382  
MC011383  
MC011384  
MC011385

## Typical Time-To-Trip at 23°C



**A** = MC011373  
**B** = MC011374  
**C** = MC011375  
**D** = MC011376  
**E** = MC011377  
**F** = MC011378  
**G** = MC011379  
**H** = MC011380  
**I** = MC011381  
**J** = MC011382  
**K** = MC011383  
**L** = MC011384  
**M** = MC011385

## Part Number Table

| Description                                          | Part Number |
|------------------------------------------------------|-------------|
| PTC Resettable Fuse, 0.05A, 240V AC/DC, Through Hole | MC011373    |
| PTC Resettable Fuse, 0.08A, 240V AC/DC, Through Hole | MC011374    |
| PTC Resettable Fuse, 0.12A, 240V AC/DC, Through Hole | MC011375    |
| PTC Resettable Fuse, 0.16A, 240V AC/DC, Through Hole | MC011376    |
| PTC Resettable Fuse, 0.25A, 240V AC/DC, Through Hole | MC011377    |
| PTC Resettable Fuse, 0.33A, 240V AC/DC, Through Hole | MC011378    |
| PTC Resettable Fuse, 0.4A, 240V AC/DC, Through Hole  | MC011379    |
| PTC Resettable Fuse, 0.55A, 240V AC/DC, Through Hole | MC011380    |
| PTC Resettable Fuse, 0.75A, 240V AC/DC, Through Hole | MC011381    |
| PTC Resettable Fuse, 1A, 240V AC/DC, Through Hole    | MC011382    |
| PTC Resettable Fuse, 1.25A, 240V AC/DC, Through Hole | MC011383    |
| PTC Resettable Fuse, 1.5A, 240V AC/DC, Through Hole  | MC011384    |
| PTC Resettable Fuse, 2A, 240V AC/DC, Through Hole    | MC011385    |

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