

# Radial Leaded PTC Resettable Fuse



## Specifications:

Applications : Telecom and wide variety of electronic equipment.  
Product Features : Low hold current, Solid state, Radial leaded product ideal for up to 90V  
Operation Current : 100 mA to 550 mA  
Maximum Voltage : up to 90V  
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       |             |
| 0.10         | 0.20         | 4.0                  | 40              | 72/90             | 0.38          | 2.50       | 7.50       | MC36184     |
| 0.15         | 0.35         | 10.0                 |                 |                   | 0.70          | 2.40       | 7.00       | MC36185     |
| 0.17         | 0.34         | 3.0                  |                 |                   | 0.48          | 2.00       | 8.00       | MC36186     |
| 0.35         | 0.75         | 10.0                 |                 |                   | 1.30          | 0.70       | 2.50       | MC36190     |
| 0.55         | 1.20         | 10.0                 |                 |                   | 1.50          | 0.40       | 1.50       | MC36193     |

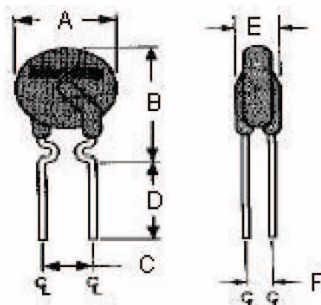
$I_H$  = Hold current-maximum current at which the device will not trip at 23°C still air.  
 $I_T$  = Trip current-minimum current at which the device will always trip at 23°C still air.  
 $V_{MAX}$  = Maximum voltage device can withstand without damage at its rated current.  
 $I_{MAX}$  = Maximum 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.  
Soldering characteristics : MIL-STD-202, Method 208E.  
Insulating coating : Flame retardant epoxy.

## Production Dimensions (millimetre)

Specification Table



Lead Size : 24 AWG  
Ø0.51 mm Diameter

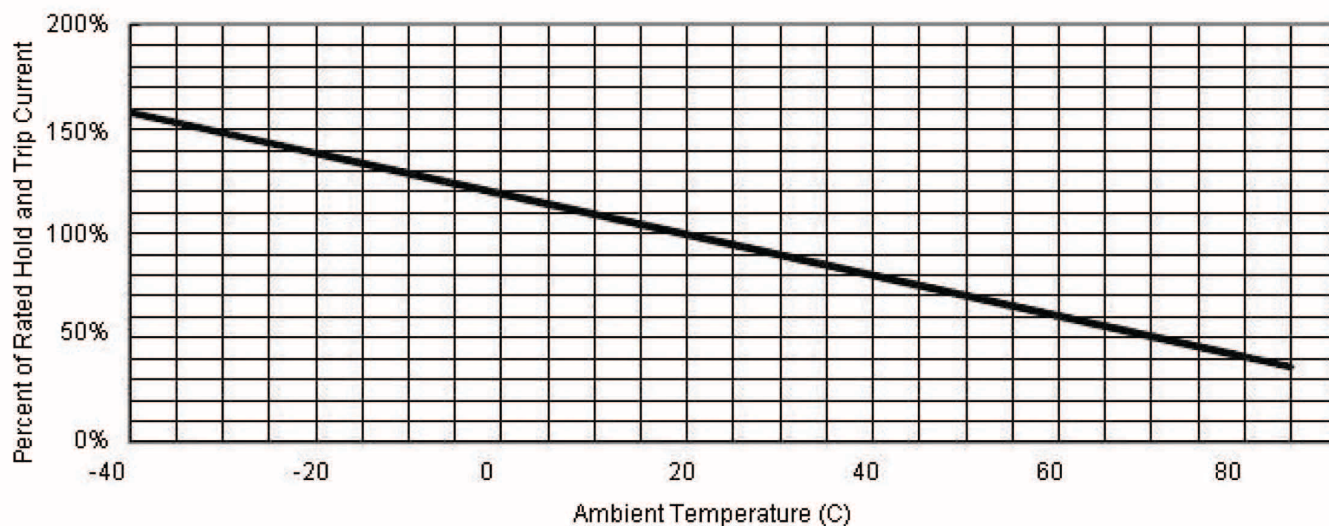
| A       | B       | C       | D       | E       | F       | Part Number |
|---------|---------|---------|---------|---------|---------|-------------|
| Maximum | Maximum | Typical | Minimum | Maximum | Typical |             |
| 7.4     | 12.7    | 5.1     | 7.6     | 3.1     | 1.1     | MC36184     |
|         |         |         |         |         |         | MC36185     |
|         |         |         |         |         |         | MC36186     |
|         |         |         |         |         |         | MC36190     |
| 9.7     | 14.0    |         |         |         |         | MC36193     |

# Radial Leaded PTC Resettable Fuse



## Thermal Derating Curve

Thermal Derating Curve-FRX 90V Series



## Typical Time-To-Trip at 23°C

A=MC36184  
B=MC36185  
C=MC36186  
G=MC36190  
J=MC36193

