

PTC RESETTABLE FUSES - PRODUCT SELECTION GUIDE

How Does The Resettable Fuse Work?

Resettable fuses are designed and made of patented novel polymeric PTC material in thin chip form. With electrodes and leads attached on both sides, it is placed in series to protect a circuit. At "normal operating condition" the device remains at an extremely low resistance (milli-ohms) and allows the electrical current to flow through it without any restriction. When over current conditions occur, the polymeric PTC material heats up and its resistance increases sharply. Such a sharp resistance increase (to an insulated status) cuts off the current in the circuit, and consequently protects the element and device in the circuit. Upon fault current being removed, the resettable fuse cools and its resistance drops to the original extremely low value. The resettable fuse is "reset" and allows the current through the circuit again.

PTC RESETTABLE FUSES - SURFACE MOUNT

Fuzetec



| 0402 Size | 0603 Size | 0805 Size | 1206 Size | 1210 Size | 1812 Size | 2016 Size | 2920 Size |
|-------------|-----------|-----------|-----------|------------|-------------|-------------|-------------|
| 1.15 x 0.65 | 1.8 x 1.0 | 2.3 x 1.5 | 3.5 x 1.8 | 3.43 x 2.8 | 4.73 x 3.41 | 5.44 x 4.43 | 7.98 x 5.44 |

Dimensions in MM

| Part Number | Chip Size | Hold Current | Trip Current | Voltage Range | Max Current |
|--------------|-----------|---------------|----------------|---------------|-------------|
| FSMD...0603R | 0603 | 10mA to 200mA | 30mA to 450mA | 60VDC to 9VDC | 40A |
| FSMD...0805 | 0805 | 100mA to 1A | 300mA to 1.95A | 24VDC to 6VDC | 100A |
| FSMD...1206 | 1206 | 50mA to 2A | 150mA to 3.5A | 60VDC to 6VDC | 100A |
| FSMD...1210 | 1210 | 50mA to 2A | 150mA to 4A | 60VDC to 6VDC | 100A |
| FSMD...1812 | 1812 | 100mA to 3A | 300mA to 5A | 60VDC to 6VDC | 100A |
| FSMD...2016 | 2016 | 300mA to 2A | 600mA to 4.2A | 60VDC to 6VDC | 100A |
| FSMD...2920 | 2920 | 300mA to 5A | 600mA to 10A | 60VDC to 6VDC | 100A |

NEW

Approvals:

Low Rho PPTC Resettable Fuses

The Low Rho fuses offer the following advantages over regular SMD Resettable fuses;

- Ultra Low Resistance
- Higher Hold Current
- Faster Time to Trip
- Less Voltage Drop
- Lower Power Consumption

| Part Number | Chip Size | Hold Current | Trip Current | Voltage Range | Max Current |
|---------------|-----------|----------------|---------------|---------------|-------------|
| FSMD...0402RZ | 0402 | 100mA to 500mA | 300mA to 1A | 6VDC | 100A |
| FSMD...0603RZ | 0603 | 250mA to 1A | 550mA to 1.8A | 9VDC to 6VDC | 100A |
| FSMD...0805RZ | 0805 | 750mA to 3.5A | 1.5A to 7A | 6VDC | 100A |
| FSMD...1206RZ | 1206 | 500mA to 7A | 1.5A to 14A | 6VDC | 100A |
| FSMD...1210RZ | 1210 | 1.75A to 7.5A | 3.5A to 15A | 6VDC | 100A |
| FSMD...RZ | 1812 | 1.4A to 6A | 3.6A to 12A | 6VDC | 100A |

NEW

NEW

Approvals:

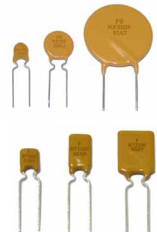


Packaging Notes: Products supplied on tape / reel.

PTC RESETTABLE FUSES - PCB MOUNT

Fuzetec

| Part Number | Hold Current | Trip Current | Voltage Range | Max Current |
|-------------|----------------|---------------|-----------------|-------------|
| FRX...60F | 50mA to 3.75A | 100mA to 7.5A | 60VDC | 40A |
| FRX...90F | 100mA to 3.75A | 200mA to 7.5A | 90VDC | 40A |
| FRU...30F | 900mA to 9A | 1.8A to 18A | 30VDC | 100A |
| FUSB.. | 750mA to 2.5A | 1.3A to 5A | 30VDC to 16VDC | 40A |
| FRG.. | 2.5A to 14A | 4.7A to 23.8A | 16VDC | 100A |
| FRH...V | 80mA to 400mA | 160mA to 1A | 60VDC to 250VDC | 3A to 10A |
| FRT.. | 500mA to 2.5A | 1.1A to 4A | 36VDC | 40A |
| FRV.. | 50mA to 2A | 120mA to 4A | 240VAC/VDC | 1A to 20A |
| FRVL.. | 100mA to 3.75A | 200mA to 7.5A | 120VAC/VDC | 2A to 20A |
| FHT.. | 500mA to 15A | 900mA to 28A | 30VDC to 16VDC | 40A to 100A |



Approvals: