

Surface Mount Fuse, PTC, 2029 or 3425 footprint, 60 VDC



6.0 - 60.0VDC · 0.3 - 2.6A

**Description**

- Directly solderable on printed circuit boards

**Standards**

- UL 1434
- CSA C22.2 no. 0, TIL no. CA-3A

**Approvals**

- UL File Number: E172175

**Applications**

- Computer & Peripherals
- General electronics
- Automotive applications

**References**

[General Product Information](#)  
[Packaging Details](#)

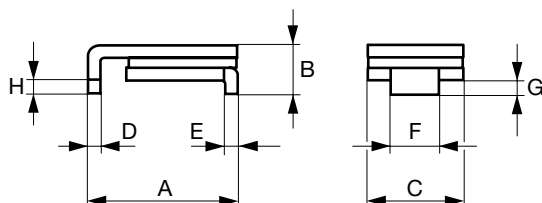
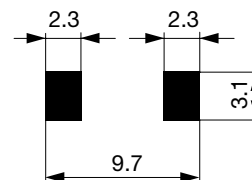
**Weblinks**

[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [Distributor-Stock-Check](#),  
[Accessories](#), [Product Change Notification \(PCN\)](#)

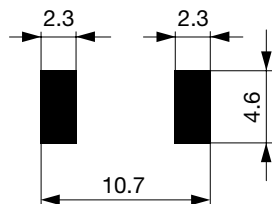
**Technical Data**

|                           |                                                                                                       |
|---------------------------|-------------------------------------------------------------------------------------------------------|
| V max                     | 6.0 - 60.0VDC                                                                                         |
| I <sub>max</sub>          | 40 - 100A                                                                                             |
| I hold                    | 0.3 - 2.6A                                                                                            |
| Mounting                  | PCB,SMT                                                                                               |
| Allowable Operation Temp. | -40 °C to 85 °C                                                                                       |
| Material: Terminals       | Tin-Plated Brass                                                                                      |
| Weight                    | 0.4 g                                                                                                 |
| Storage Conditions        | 0 °C to 40 °C, max. 70% r.h.                                                                          |
| Product Marking           |  I hold, Data Code |

|                              |                                                                                             |
|------------------------------|---------------------------------------------------------------------------------------------|
| Soldering Methods            | Reflow                                                                                      |
| Solderability                | 245 °C / 3 sec                                                                              |
| Resistance to Soldering Heat | 260 °C / 10 sec                                                                             |
| Passing Aging                | +85 °C, 1000 Hours -> +/- 5% Typical Resistance Change                                      |
| Humidity Aging               | +85 °C, 85% r.h., 7 Days -> +/- 5% Typical Resistance Change                                |
| Thermal Shock                | MIL-STD-202, Method 107 (+125 °C to -55 °C, 10 Cycles) -> +/- 15% Typical Resistance Change |
| Vibration                    | MIL-STD-883C, Method 2007.1, Test Condition A                                               |

**Dimensions**

Solder pads PFSM.030.2 - PFSM.125.2 and PFSM.260.2



Solder pads PFSM.150.2 and PFSM.200.2

### Dimensions

| A min [mm] | A max [mm] | B max [mm] | C max [mm] | D min [mm] | D max [mm] | E min [mm] | E max [mm] | F min [mm] | F max [mm] | G min [mm] | G max [mm] | H min [mm] | Order Number  |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|---------------|
| 6.73       | 7.98       | 3.18       | 5.44       | 0.56       | 0.71       | 0.56       | 0.71       | 2.16       | 2.41       | 0.66       | 1.37       | 0.43       | PFSM.030.2    |
| 6.73       | 7.98       | 3.18       | 5.44       | 0.56       | 0.71       | 0.56       | 0.71       | 2.16       | 2.41       | 0.66       | 1.37       | 0.43       | PFSM.050.2    |
| 6.73       | 7.98       | 3.18       | 5.44       | 0.56       | 0.71       | 0.56       | 0.71       | 2.16       | 2.41       | 0.66       | 1.37       | 0.43       | PFSM.075.2    |
| 6.73       | 7.98       | 3          | 5.44       | 0.56       | 0.71       | 0.56       | 0.71       | 2.16       | 2.41       | 0.66       | 1.37       | 0.43       | PFSM.100.2    |
| 6.73       | 7.98       | 3          | 5.44       | 0.56       | 0.71       | 0.56       | 0.71       | 2.16       | 2.41       | 0.66       | 1.37       | 0.43       | PFSM.100.33.2 |
| 6.73       | 7.98       | 3          | 5.44       | 0.56       | 0.71       | 0.56       | 0.71       | 2.16       | 2.41       | 0.66       | 1.37       | 0.43       | PFSM.125.2    |
| 8          | 9.5        | 3          | 6.71       | 0.56       | 0.71       | 0.56       | 0.71       | 3.68       | 3.94       | 0.66       | 1.37       | 0.43       | PFSM.150.2    |
| 8          | 9.5        | 3          | 6.71       | 0.56       | 0.71       | 0.56       | 0.71       | 3.68       | 3.94       | 0.66       | 1.37       | 0.43       | PFSM.150.33.2 |
| 8          | 9.5        | 3          | 6.71       | 0.56       | 0.71       | 0.56       | 0.71       | 3.68       | 3.94       | 0.66       | 1.37       | 0.43       | PFSM.200.2    |
| 8          | 9.5        | 3          | 6.71       | 0.56       | 0.71       | 0.56       | 0.71       | 3.68       | 3.94       | 0.66       | 1.37       | 0.43       | PFSM.250.2    |
| 6.73       | 7.98       | 3          | 5.44       | 0.56       | 0.71       | 0.56       | 0.71       | 2.16       | 2.41       | 0.66       | 1.37       | 0.43       | PFSM.260.2    |

### Thermal Derating Chart Ihold [A]

| -40 °C | -20 °C | 0 °C | 23 °C | 40 °C | 50 °C | 60 °C | 70 °C | 85 °C | Order Number  |
|--------|--------|------|-------|-------|-------|-------|-------|-------|---------------|
| 0.45   | 0.4    | 0.35 | 0.3   | 0.25  | 0.23  | 0.2   | 0.17  | 0.14  | PFSM.030.2    |
| 0.76   | 0.67   | 0.59 | 0.5   | 0.42  | 0.38  | 0.33  | 0.29  | 0.23  | PFSM.050.2    |
| 1.13   | 1.01   | 0.88 | 0.75  | 0.62  | 0.56  | 0.5   | 0.44  | 0.34  | PFSM.075.2    |
| 1.66   | 1.47   | 1.29 | 1.1   | 0.91  | 0.83  | 0.73  | 0.64  | 0.5   | PFSM.100.2    |
| 1.66   | 1.47   | 1.29 | 1.1   | 0.91  | 0.83  | 0.73  | 0.64  | 0.5   | PFSM.100.33.2 |
| 1.89   | 1.68   | 1.46 | 1.25  | 1.04  | 0.94  | 0.83  | 0.73  | 0.56  | PFSM.125.2    |
| 2.27   | 2.01   | 1.76 | 1.5   | 1.25  | 1.13  | 0.99  | 0.87  | 0.68  | PFSM.150.2    |
| 2.27   | 2.01   | 1.76 | 1.5   | 1.25  | 1.13  | 0.99  | 0.87  | 0.68  | PFSM.150.33.2 |
| 3.02   | 2.68   | 2.34 | 2     | 1.66  | 1.5   | 1.32  | 1.16  | 0.9   | PFSM.200.2    |
| 3.78   | 3.35   | 2.93 | 2.5   | 2.08  | 1.88  | 1.65  | 1.45  | 1.13  | PFSM.250.2    |
| 3.64   | 3.25   | 2.91 | 2.6   | 2.26  | 2.08  | 1.95  | 1.74  | 1.48  | PFSM.260.2    |

### Electrical Characteristics at 23 °C

| V max [VDC] | I max [A] | I hold [A] | I trip [A] | R initial min [Ω] | R 1 hour max [Ω] | Max Time to trip [A] | Max Time to Trip [s] | Tripped Power Dissipation [W] | Order Number  |
|-------------|-----------|------------|------------|-------------------|------------------|----------------------|----------------------|-------------------------------|---------------|
| 60.0        | 40        | 0.3        | 0.6        | 0.9               | 4.8              | 1.5                  | 3                    | 1.70                          | PFSM.030.2    |
| 60.0        | 40        | 0.5        | 1          | 0.35              | 1.4              | 2.5                  | 4                    | 1.70                          | PFSM.050.2    |
| 30.0        | 80        | 0.75       | 1.5        | 0.23              | 1                | 8                    | 0.3                  | 1.70                          | PFSM.075.2    |
| 30.0        | 80        | 1.1        | 2.2        | 0.12              | 0.48             | 8                    | 0.5                  | 1.70                          | PFSM.100.2    |
| 33.0        | 40        | 1.1        | 2.2        | 0.12              | 0.41             | 8                    | 0.5                  | 1.70                          | PFSM.100.33.2 |
| 15.0        | 100       | 1.25       | 2.5        | 0.07              | 0.25             | 8                    | 2                    | 1.70                          | PFSM.125.2    |
| 15.0        | 100       | 1.5        | 3          | 0.06              | 0.25             | 8                    | 5                    | 1.90                          | PFSM.150.2    |
| 33.0        | 40        | 1.5        | 3          | 0.06              | 0.23             | 8                    | 5                    | 1.90                          | PFSM.150.33.2 |
| 15.0        | 100       | 2          | 4          | 0.045             | 0.125            | 8                    | 12                   | 1.90                          | PFSM.200.2    |
| 15.0        | 100       | 2.5        | 5          | 0.024             | 0.085            | 8                    | 25                   | 1.90                          | PFSM.250.2    |

| V max [VDC] | I max [A] | I hold [A] | I trip [A] | R initial min [ $\Omega$ ] | R 1hour max [ $\Omega$ ] | Max Time to trip [A] | Max Time to Trip [s] | Tripped Power Dissipation [W] | Order Number |
|-------------|-----------|------------|------------|----------------------------|--------------------------|----------------------|----------------------|-------------------------------|--------------|
| 6.0         | 100       | 2.6        | 5.2        | 0.025                      | 0.075                    | 8                    | 20                   | 1.70                          | PFSM.260.2   |

|                       |                         |                                     |
|-----------------------|-------------------------|-------------------------------------|
| <b>Packaging Unit</b> | PFSM.030.2 - PFSM.125.2 | Blister Tape 36 cm Reel (2000 pcs.) |
|                       | PFSM.150.2 - PFSM.250.2 | Blister Tape 36 cm Reel (1500 pcs.) |
|                       | PFSM.260.2              | Blister Tape 36 cm Reel (2000 pcs.) |

### Time-Current-Curves

