

Surface Mount Fuse, PTC, 1812 footprint, 4.6 x 3.2 mm, 60 VDC



6.0 - 60.0VDC · 0.1 - 2.6A



**Description**

- 100% compatible with the PFMD type
- Directly solderable on printed circuit boards

**Standards**

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

**Approvals**

- UL File Number: E172175
- CSA File Number: 702083

**Applications**

- Hard disk drives
- PC motherboards
- PC peripherals
- PCMCIA cards
- USB port protection

**References**

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

**Weblinks**

- [Approvals, RoHS, CHINA-RoHS, SCHURTER-Stock-Check, Distributor-Stock-Check](#)

**Technical Data**

V max	6.0 - 60.0VDC
I <sub>max</sub>	10 - 100A
I hold	0.1 - 2.6A
Mounting	PCB,SMT
Allowable Operation Temp.	-40°C to 85°C
Material: Terminals	Electroless Nickel under Immerion Gold
Weight	0.025 g
Storage Conditions	0°C to 40°C, max. 70% r.h.
Product Marking	I hold, Data Code

Soldering Methods	Reflow
Solderability	245°C / 3sec
Resistance to Soldering Heat	260°C / 10sec
Passing Aging	+85 °C, 1000 Hours -> +/- 5% Typical Resistance Change
Humidity Aging	+85 °C, 85% r.h., 1000 Hours -> +/- 5% Typical Resistance Change
Thermal Shock	+85 °C to -40 °C, 20 Times -> +/- 10% Typical Resistance Change
Vibration	MIL-STD-883C, Method 2007.1, Test Condition A
Resistance to Solvents	MIL-STD-202, Methode 215

**Dimensions**

4.6 mm



Soldering pads

## Dimensions

A min [mm]	A max [mm]	B min [mm]	B max [mm]	C min [mm]	C max [mm]	D min [mm]	Order Number
4.37	4.73	3.07	3.41	0.7	1.1	0.3	PFMF.010.2
4.37	4.73	3.07	3.41	0.7	1.1	0.3	PFMF.014.2
4.37	4.73	3.07	3.41	0.7	1.1	0.3	PFMF.020.2
4.37	4.73	3.07	3.41	0.7	1.1	0.3	PFMF.030.2
4.37	4.73	3.07	3.41	0.55	0.85	0.3	PFMF.050.2
4.37	4.73	3.07	3.41	0.55	0.85	0.3	PFMF.075.2
4.37	4.73	3.07	3.41	0.55	0.85	0.3	PFMF.075.24.2
4.37	4.73	3.07	3.41	0.45	0.75	0.3	PFMF.110.2
4.37	4.73	3.07	3.41	0.55	0.85	0.3	PFMF.125.2
4.37	4.73	3.07	3.41	0.55	0.85	0.3	PFMF.150.2
4.37	4.73	3.07	3.41	0.55	0.85	0.3	PFMF.160.2
4.37	4.73	3.07	3.41	0.55	0.85	0.3	PFMF.200.2
4.37	4.73	3.07	3.41	0.48	0.85	0.3	PFMF.260.2

## Thermal Derating Chart Ihold [A]

Order Number	-40 °C	-20 °C	0 °C	23 °C	40 °C	50 °C	60 °C	70 °C	85 °C	Order Number
PFMF.010.2	0.16	0.14	0.12	0.1	0.08	0.07	0.06	0.05	0.03	PFMF.010.2
PFMF.014.2	0.23	0.19	0.17	0.14	0.12	0.1	0.09	0.08	0.06	PFMF.014.2
PFMF.020.2	0.29	0.26	0.23	0.2	0.17	0.15	0.14	0.12	0.1	PFMF.020.2
PFMF.030.2	0.44	0.39	0.35	0.3	0.26	0.23	0.21	0.18	0.15	PFMF.030.2
PFMF.050.2	0.77	0.68	0.59	0.5	0.44	0.4	0.37	0.33	0.29	PFMF.050.2
PFMF.075.2	1.15	1.01	0.88	0.75	0.65	0.6	0.55	0.49	0.43	PFMF.075.2
PFMF.075.24.2	1.15	1.01	0.88	0.75	0.65	0.6	0.55	0.49	0.43	PFMF.075.24.2
PFMF.110.2	1.59	1.43	1.26	1.1	0.95	0.87	0.8	0.71	0.6	PFMF.110.2
PFMF.125.2	1.8	1.63	1.43	1.25	1.08	0.99	0.91	0.81	0.68	PFMF.125.2
PFMF.150.2	2.17	1.95	1.72	1.5	1.3	1.18	1.09	0.97	0.82	PFMF.150.2
PFMF.160.2	2.3	2.2	1.9	1.6	1.45	1.3	1.15	1.03	0.91	PFMF.160.2
PFMF.200.2	3.08	2.71	2.35	2	1.8	1.6	1.5	1.4	1.25	PFMF.200.2
PFMF.260.2	4	3.52	3.6	2.6	2.34	2.08	1.95	1.39	1.04	PFMF.260.2

## Electrical Characteristics at 23 °C

V max [VDC]	I max [A]	I hold [A]	I trip [A]	R initial min [Ω]	R 1hour max [Ω]	Max Time to trip [A]	Max Time to Trip [s]	Tripped Power Dissipation [W]	Order Number
60.0	40	0.1	0.3	0.7	15	0.5	1.5	0.80	PFMF.010.2
60.0	40	0.14	0.34	0.4	6.5	1.5	0.15	0.80	PFMF.014.2
30.0	80	0.2	0.4	0.4	6	6	0.06	0.80	PFMF.020.2
30.0	10	0.3	0.6	0.3	3	8	0.1	0.80	PFMF.030.2
15.0	100	0.5	1	0.15	1	8	0.15	0.80	PFMF.050.2
13.2	100	0.75	1.5	0.11	0.45	8	0.2	0.80	PFMF.075.2
24.0	40	0.75	1.5	0.11	0.45	8	0.2	0.80	PFMF.075.24.2
6.0	100	1.1	2.2	0.04	0.21	8	0.3	0.80	PFMF.110.2
6.0	100	1.25	2.5	0.035	0.14	8	0.4	0.80	PFMF.125.2
6.0	100	1.5	3	0.03	0.12	8	0.5	0.80	PFMF.150.2
8.0	100	1.6	2.8	0.035	0.099	8	2	0.80	PFMF.160.2
8.0	40	2	4	0.2	0.08	8	3	0.80	PFMF.200.2
6.0	100	2.6	5.2	0.015	0.08	8	5	0.80	PFMF.260.2

## Packaging Unit

PFMF.010.2 - PFMF.030.2 Blister Tape 18 cm Reel (1500 pcs.)  
 PFMF.050.2 + PFMF.260.2 Blister Tape 18 cm Reel (2000 pcs.)

Time-Current-Curves

