

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

- Approval Reference Type: PFMF
- UL File Number: E172175

Applications

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

References

[Packaging Details](#)

Weblinks

[pdf datasheet](#), [html-datasheet](#), [General Product Information](#), [Packaging details](#), [Approvals](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [REACH](#), [Distributor-Stock-Check](#), [Detailed request for product](#)

Technical Data

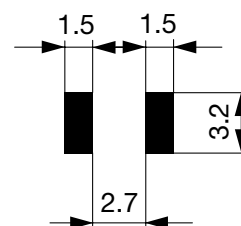
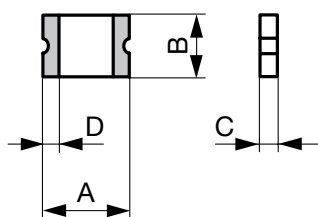
V max	6.0 - 60.0 VDC
I max	10 - 100 A
I hold	0.1 - 2.6 A
Attachment	PCB, SMT
Allowable Operation Temperature	-40 °C to 85 °C
Material: Terminals	Electroless Nickel under Immersion Gold
Weight	0.025 g
Storage Conditions	0 °C to 40 °C, max. 70% r.h.
Product Marking	I hold, Data Code

Soldering Methods	Reflow Soldering Profile
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., 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

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in [General Product Information](#)

Dimension

4.6 mm



Soldering pads

Part marking



Part Identification Examples:

PFMF.020 = 02
PFMF.075 = 75
PFMF.150 = 15
PFMF.200 = 20

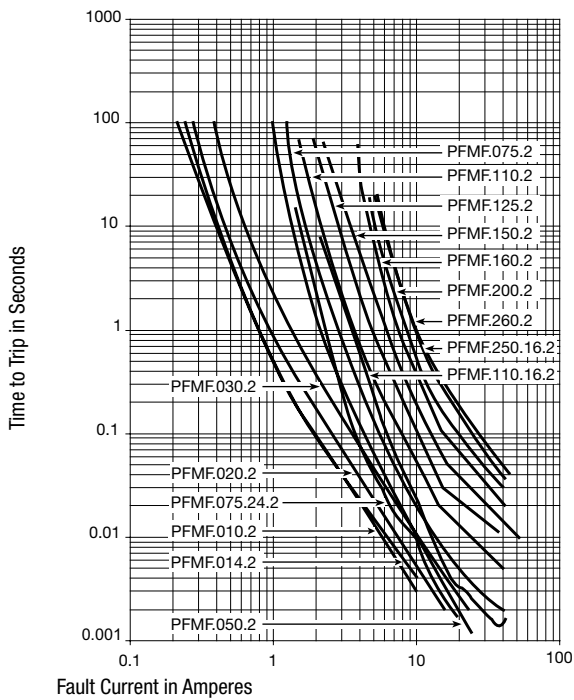
Biweekly Date Code:

Week 1 and 2 = A
Week 51 and 52 = Z

Year Code:

6 = 2016

Time-Current-Curves



Letter heights and Fonts

A min [mm]	A max [mm]	B min [mm]	Insert depth	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	0.85	0.3	PFMF.110.2
4.37	4.73	3.07	3.41	0.45	0.85	0.3	PFMF.110.16.2
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

A min [mm]	A max [mm]	B min [mm]	Insert depth	C min [mm]	C max [mm]	D min [mm]	Order Number
4.37	4.83	3.07	3.41	0.7	1.6	0.3	PFMF.250.16.2
4.37	4.73	3.07	3.41	0.48	0.85	0.3	PFMF.260.2

Most Popular.

Availability for all products can be searched real-time:<http://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER>

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.110.16.2	1.59	1.43	1.26	1.1	0.95	0.87	0.8	0.71	0.6	PFMF.110.16.2
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.250.16.2	3.9	3.42	2.96	2.5	2.24	1.98	1.85	1.29	0.94	PFMF.250.16.2
PFMF.260.2	4	3.52	3.06	2.6	2.34	2.08	1.95	1.39	1.04	PFMF.260.2

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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
16.0	100	1.1	2.2	0.04	0.21	8	0.3	0.80	PFMF.110.16.2
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	0.02	0.08	8	3	0.80	PFMF.200.2
16.0	100	2.5	5	0.015	0.1	8	5	1.20	PFMF.250.16.2
6.0	100	2.6	5.2	0.015	0.08	8	5	0.80	PFMF.260.2

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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.)