

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

[Packaging Details](#)

Weblinks

[pdf](#), [html](#), [General Product Information](#), [Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

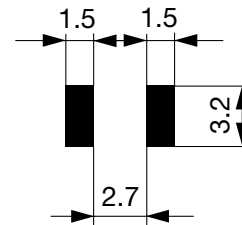
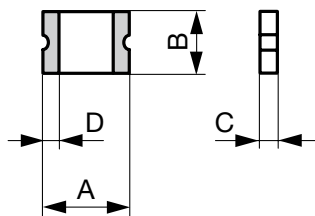
Technical Data

V max	6.0 - 60.0VDC
I _{max}	10 - 100A
I hold	0.1 - 2.6A
Mounting	PCB, SMT
Allowable Operation Temp.	-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
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

Dimensions

4.6 mm



Soldering pads

Dimensions

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	0.75	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	0.02	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

