

PFSM



2029 and 3425 footprint · 6.0 - 60.0 VDC · 0.3 - 2.6



Approvals

- UL File Number: E172175

Applications

- Computer & peripherals
- General electronics
- Automotive applications

References

[General Product Information](#)

Time-Current Curves see last page

[Packaging Details](#)

Weblinks

Approvals: <http://www.schurter.com/approvals>

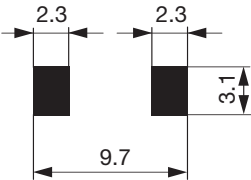
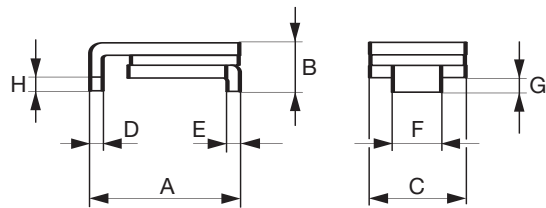
RoHS: <http://www.schurter.com/rohs>

Technical Data

V max [VDC]	6.0 - 60.0 VDC
I max [A]	40 - 100 A
I hold [A]	0.3 - 2.6 A
Fastening	PCB,SMT
Allowable operation temp.	-40 °C to 85 °C
Material: Terminals	Tin-Plated Brass
Weight	2 g
Stock Conditions	0 °C to 40 °C, max. 70% r.h.

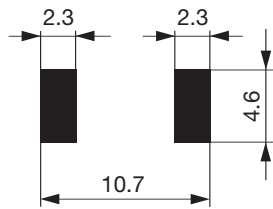
Soldering Methods	Reflow
Solderability	245 °C / 3 sec
Resistance to Soldering Heat	260 °C / 10 sec
Passing Aging	+85 °C, 1000 Hours -> +/- 5% Typical Resistance Change
Humidity Aging	+85 °C, 85% r.h., 7 Days -> +/- 5% Typical Resistance Change
Thermal Shock	MIL-STD-202F, Method 107G (+125 °C to -55 °C, 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

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Solder pads PFSM.150.2 and PFSM.200.2

Dimensions

Order Number	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]
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	3.18	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.125.2	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.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.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	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.260.2	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

Thermal Derating Chart I_{hold} / I_{trip} [A]

Order Number	-40 °C	-20 °C	0 °C	23 °C	40 °C	50 °C	60 °C	70 °C	85 °C
PFSM.030.2	0.45 / 0.9	0.4 / 0.8	0.35 / 0.7	0.3 / 0.6	0.25 / 0.5	0.23 / 0.46	0.2 / 0.4	0.17 / 0.34	0.14 / 0.28
PFSM.050.2	0.76 / 1.52	0.67 / 1.34	0.59 / 1.18	0.5 / 1	0.42 / 0.84	0.38 / 0.76	0.33 / 0.66	0.29 / 0.58	0.23 / 0.46
PFSM.075.2	1.13 / 2.26	1.01 / 2.02	0.88 / 1.76	0.75 / 1.5	0.62 / 1.24	0.56 / 1.12	0.5 / 1	0.44 / 0.88	0.34 / 0.68
PFSM.100.2	1.66 / 3.32	1.47 / 2.94	1.29 / 2.58	1.1 / 2.2	0.91 / 1.82	0.83 / 1.66	0.73 / 1.46	0.64 / 1.28	0.5 / 1
PFSM.125.2	1.89 / 3.78	1.68 / 3.36	1.46 / 2.92	1.25 / 2.5	1.04 / 2.08	0.94 / 1.88	0.83 / 1.66	0.73 / 1.46	0.56 / 1.12
PFSM.150.2	2.27 / 4.54	2.01 / 4.02	1.76 / 3.52	1.5 / 3	1.25 / 2.5	1.13 / 2.26	0.99 / 1.98	0.87 / 1.74	0.68 / 1.36
PFSM.200.2	3.02 / 6.04	2.68 / 5.36	2.34 / 4.68	2 / 4	1.66 / 3.32	1.5 / 3	1.32 / 2.64	1.16 / 2.32	0.9 / 1.8
PFSM.250.2	3.78 / 7.56	3.35 / 6.7	2.93 / 5.86	2.5 / 5	2.08 / 4.16	1.88 / 3.76	1.65 / 3.3	1.45 / 2.9	1.13 / 2.26
PFSM.260.2	3.64 / 7.28	3.25 / 6.5	2.91 / 5.82	2.6 / 5.2	2.26 / 4.52	2.08 / 4.16	1.95 / 3.9	1.74 / 3.48	1.48 / 2.96

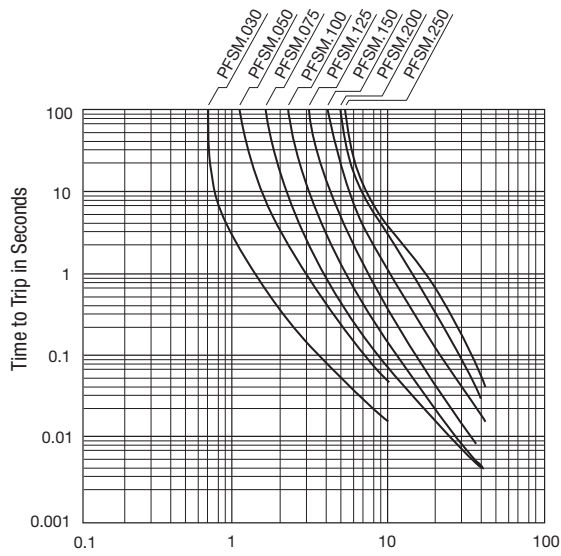
Electrical Characteristics

Order Number	V max [VDC]	I max [A]	I hold [A]	I trip [A]	R initial min [mΩ]	R 1 hour max [Ω]	Max Time to trip [A]	Max Time to Trip [s]	Tripped Power Dissipation [W]
PFSM.030.2	60.0	40	0.3	0.6	0.9	4.8	1.5	3	1.70
PFSM.050.2	60.0	40	0.5	1	0.35	1.4	2.5	4	1.70
PFSM.075.2	30.0	80	0.75	1.5	0.23	1	8	0.3	1.70
PFSM.100.2	30.0	80	1.1	2.2	0.12	0.48	8	0.5	1.70
PFSM.125.2	15.0	100	1.25	2.5	0.07	0.25	8	2	1.70
PFSM.150.2	15.0	100	1.5	3	0.06	0.25	8	5	1.90
PFSM.200.2	15.0	100	2	4	0.045	0.125	8	12	1.90
PFSM.250.2	15.0	100	2.5	5	0.024	0.085	8	25	1.90
PFSM.260.2	6.0	100	2.6	5.2	0.025	0.075	8	20	1.70

PFSM

Packaging Unit	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.)

PFSM



Fault Current in Amperes