

Surface Mount Fuse, PTC, 2018 footprint, 5.1 x 4.6 mm, 60 VDC



60.0VDC · 0.55A



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

- Power Over Ethernet (IEEE 802.3 af) port protection
- Automotive electronic control module protection
- Telecom equipment low voltage 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	60.0VDC
I _{max}	10A
I hold	0.55A
Attachment	PCB,SMT
Allowable Operation Temperature	-40°C to 85°C
Material: Terminals	Electroless Nickel under Immersion Gold
Weight	0.03 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](#)

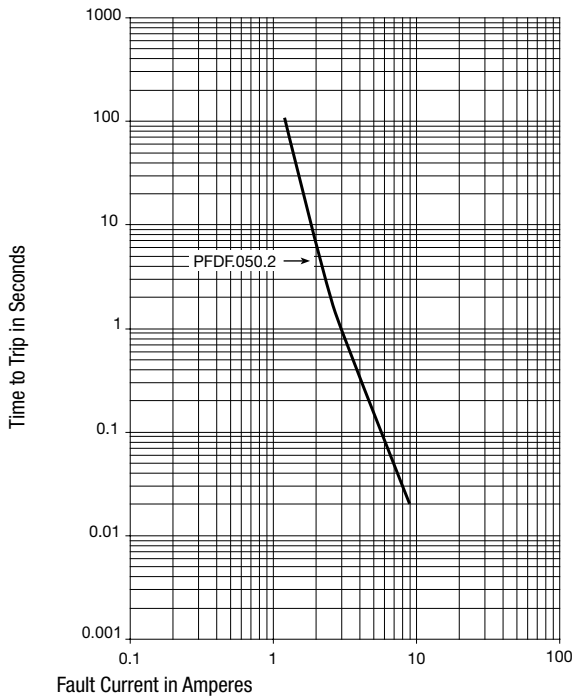
Dimension

5.1 mm



Soldering pads

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
4.72	5.44	4.22	4.93	0.79	1.09	0.3	PFDF.050.2

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
PFDF.050.2	0.86	0.77	0.7	0.55	0.48	0.43	0.38	0.36	0.26	PFDF.050.2

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

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	10	0.55	1.2	0.2	1	2.5	3	1.00	PFDF.050.2

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

Packaging Unit Blister Tape 36 cm Reel (6000 pcs.)

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