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

new

60.0 VDC · 0.55 A

Description
- 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
- Power Over Ethernet (IEEE 802.3 af) port protection
- Automotive electronic control module protection
- Telecom equipment low voltage protection

References
Packaging Details

Weblinks
pdf, html, General Product Information, Approvals, RoHS, CHINA-RoHS, e-Store, SCHURTER-Stock-Check, Distributor-Stock-Check

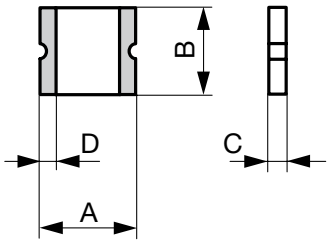
Technical Data

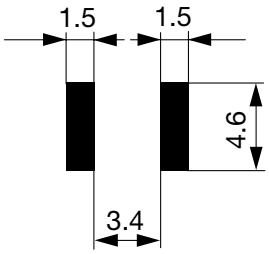
V max	60.0 VDC
Imax	10 A
I hold	0.55 A
Mounting	PCB,SMT
Allowable Operation Temp.	-40 °C to 85 °C
Material: Terminals	Electroless Nickel under Immerion Gold
Weight	0.03 g
Storage Conditions	0 °C to 40 °C, max. 70% r.h.
Product Marking	I hold, Data Code

Soldering Methods	Reflow
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

5.1 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
4.72	5.44	4.22	4.93	0.79	1.09	0.3	PFDF.050.2

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

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	10	0.55	1.2	0.2	1	2.5	3	1.00	PFDF.050.2

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

Time-Current-Curves