Surface Mount Fuse, 1.6 x 0.8 mm



UL 248-14 · 32 VAC · 32 VDC · Super-Quick-Acting

Description
- UL characteristic
- Directly solderable on printed circuit boards

Standards
- UL 248-14
- CSA C22.2 no. 248.14

Approvals
- UL File Number: E41599

Applications
- Semiconductor protection
- Digital Consumer Electronics
- Computer & peripherals

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

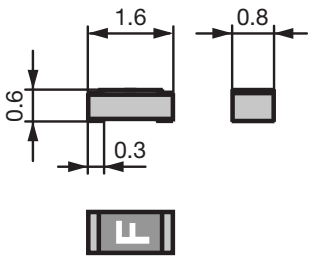
Technical Data

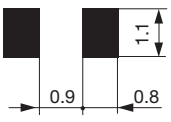
Rated Voltage	32 VAC, 32 VDC
Rated Current	0.5 - 5 A
Breaking Capacity	50 A
Characteristic	Super-Quick-Acting FF
Mounting	PCB,SMT
Admissible Ambient Air Temp.	-55 °C to 90 °C
Climatic Category	55/090/21 acc. to IEC 60068-1
Material: Housing	Epoxyd Glass, UL 94V-0
Material: Terminals	Tin-Plated Copper
Unit Weight	0.0016 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	Letter (see variants)

Soldering Methods	Reflow
Solderability	245 °C / 3 sec acc. to IEC 60068-2-58, Test Td
Resistance to Soldering Heat	260 °C / 10 sec acc. to IEC 60068-2-58, Test Td
Moisture Resistance Test	MIL-STD-202, Method 106E (50 cycles in a temp./mister chamber)
Terminal Strength	MIL-STD-202, Method 211A (Deflection of board 1 mm for 1 minute)
Case Resistance	acc. to EIA/IS-722, Test 4.7 >100 MΩ (between leeds and body)
Resistance to Solvents	MIL-STD-202, Method 215A
Flammability	min. UL 94V-1 (acc. to EIA/IS-722, Test 4.12)

Dimensions

Length 1.6 mm





Solder pads

Pre-Arcing Time

Rated Current In	1.0 x In min.	2.0 x In max.
0.5 A - 5 A	4 h	60 s

Variants

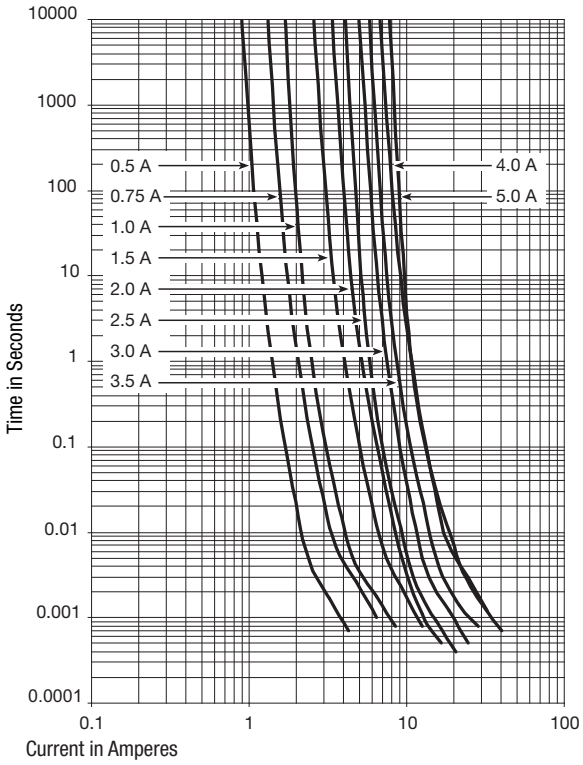
Order Number	Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Marking	Breaking Capacity	Voltage Drop 1.0 In max [mV]	Voltage Drop 1.0 In typ [mV]	Cold Resistance typ [mΩ]	Melting I²t 8.0 In typ [A²s]	cULus	CCC
3412.0113.xx	0.5	32	32	F	1)	120	101	157	0.02	●	●
3412.0114.xx	0.75	32	32	G	1)	120	100	90	0.04	●	●
3412.0115.xx	1	32	32	H	1)	120	98	75	0.06	●	●
3412.0117.xx	1.5	32	32	K	1)	120	73	44	0.14	●	●
3412.0119.xx	2	32	32	N	1)	120	70	27.5	0.25	●	●
3412.0120.xx	2.5	32	32	O	1)	120	75	23.5	0.4	●	●
3412.0121.xx	3	32	32	P	1)	120	80	18.6	0.58	●	●
3412.0122.xx	3.5	32	32	R	1)	120	85	16	0.8	●	●
3412.0123.xx	4	32	32	S	1)	120	80	12.5	1.1	●	●
3412.0124.xx	5	32	32	T	1)	120	70	10	1.5	●	●

1) 50 A @ 32 VAC , p.f. ≥ 0.95 / 50 A @ 32 VDC

Packaging Unit

.xx = .22 Blister Tape 18 cm Reel (1000 pcs.)
.xx = .24 Blister Tape 18 cm Reel (5000 pcs.)
.xx = .26 Blister Tape 33 cm Reel (15000 pcs.)

USF 0603


10000
1000
100
10
1
0.1
0.01
0.001
0.0001
Time in Seconds
0.5 A
0.75 A
1.0 A
1.5 A
2.0 A
2.5 A
3.0 A
3.5 A
4.0 A
5.0 A
0.1
1
10
100
Current in Amperes