USF 0603

Surface Mount Fuse, 1.6 x 0.8 mm, Super-Quick-Acting FF, 32 VAC, 63 VDC



UL 248-14 · 32 VAC · 63 VDC · Super-Quick-Acting FF

Description
- UL characteristic
- Low melting I²t-values, fast interruption
- Impermeable to potting compound

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

Approvals
- UL File Number: E41599

Applications
- Secondary Protection DC and AC
- Circuits without inrush
- Semiconductor protection

References
Packaging Details

Weblinks
pdf-datasheet, html-datasheet, General Product Information, Approvals, CE declaration of conformity, RoHS, CHINA-RoHS, REACH, e-Shop, SCHURTER-Stock-Check, Distributor-Stock-Check, Detailed request for product

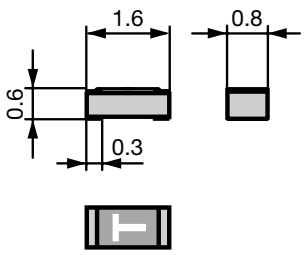
Technical Data

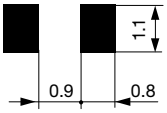
Rated Voltage	32 VAC, 63 VDC
Rated current	0.5 - 5 A
Breaking Capacity	50 A
Characteristic	Super-Quick-Acting FF
Mounting	PCB,SMT
Admissible Ambient Air Temp.	-55 °C to 90 °C
Climatic Category	55/090/21 acc. to IEC 60068-1
Material: Housing	Epoxyd Glass, UL 94V-0
Material: Terminals	Tin-Plated Copper
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 +0/-5 °C / 30 sec acc. to IPC/JEDEC J-STD-020D, Level 1
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)

Dimension

1.6 mm



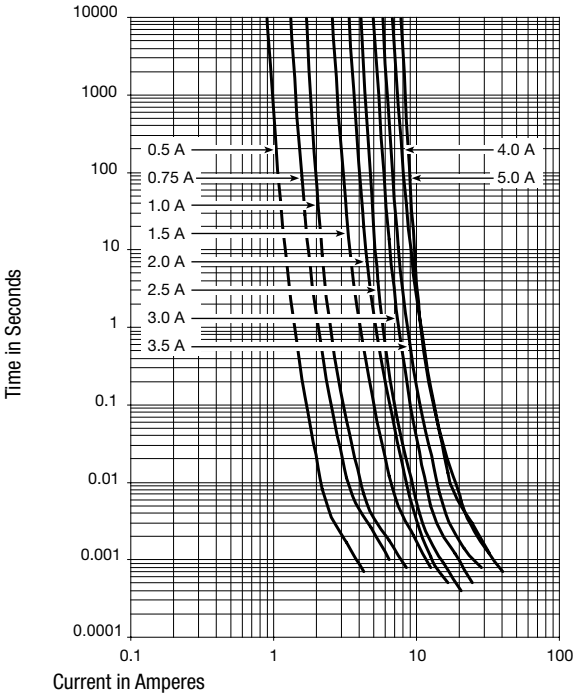


Soldering pads

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

Time-Current-Curves



All Variants

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	Order Number	
0.5	32	63	F	1)	120	101	157	0.02	●	3412.0113.xx	▮
0.75	32	63	G	1)	120	100	90	0.04	●	3412.0114.xx	
1	32	63	H	1)	120	98	75	0.06	●	3412.0115.xx	▮
1.5	32	63	K	1)	120	73	44	0.14	●	3412.0117.xx	
2	32	32	N	1)	120	70	27.5	0.25	●	3412.0119.xx	▮
2.5	32	32	O	1)	120	75	23.5	0.4	●	3412.0120.xx	
3	32	32	P	1)	120	80	18.6	0.58	●	3412.0121.xx	▮
3.5	32	32	R	1)	120	85	16	0.8	●	3412.0122.xx	
4	32	32	S	1)	120	80	12.5	1.1	●	3412.0123.xx	
5	32	32	T	1)	120	70	10	1.5	●	3412.0124.xx	

▮ Most Popular.

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

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

Packaging Unit

.xx = .11 Blister Tape of 100 pcs. in Plastic Bag
.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.)

04.05.2015

The specifications, descriptions and illustrations indicated in this document are based on current information. All content is subject to modifications and amendments. Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability and test each product selected for their own applications.