Surface Mount Fuse, 7.4 x 3.1 mm



UL 248-14 · 125 VAC · 125 VDC · Quick-Acting F

Description
- Directly solderable on printed circuit boards

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

Approvals
- UL File Number: E41599

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

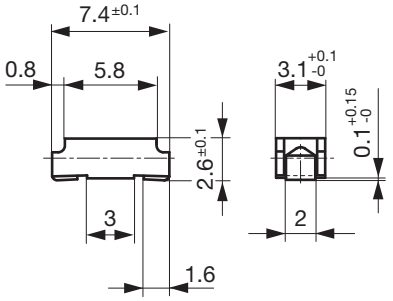
Technical Data

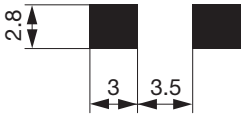
Rated Voltage	125 VAC, 125 VDC
Rated Current	0.063 - 10 A
Breaking Capacity	100 A
Characteristic	Quick-Acting F
Mounting	PCB,SMT
Admissible Ambient Air Temp.	-55 °C to 125 °C
Climatic Category	55/125/21 acc. to IEC 60068-1
Material: Housing	Thermoplastic, UL 94V-0
Material: Terminals	Tin-Plated Copper Alloy
Unit Weight	0.08 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	S, Type, Current Rating, Approvals

Soldering Methods	Reflow, Wave
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
Load Humidity Test	MIL-STD-202, Method 103B (1000h @ 0.1*In @ 0.85 r.H. @ 85°C)
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)
Mechanical Shock	MIL-STD-202, Method 213B (Shock 50gn, half sine wave, 11 ms)
Vibration, High Frequency	MIL-STD-202, Method 204D (Shock 20 gn, 20 min, 10-2 kHz, 12 cyc.)
Resistance to Solvents	MIL-STD-202, Method 215A
Flammability	min. UL 94V-1 (acc. to EIA/IS-722, Test 4.12)

Dimensions

Length 7.4 mm





Solder pads

Pre-Arcing Time

Rated Current In	1.0 x In min.	2.0 x In max.	4.0 x In max.
0.063 A - 5 A	4 h	1 s	10 ms
6.3 A - 8 A	4 h	5 s	50 ms
10 A	4 h	20 s	60 ms

Variants

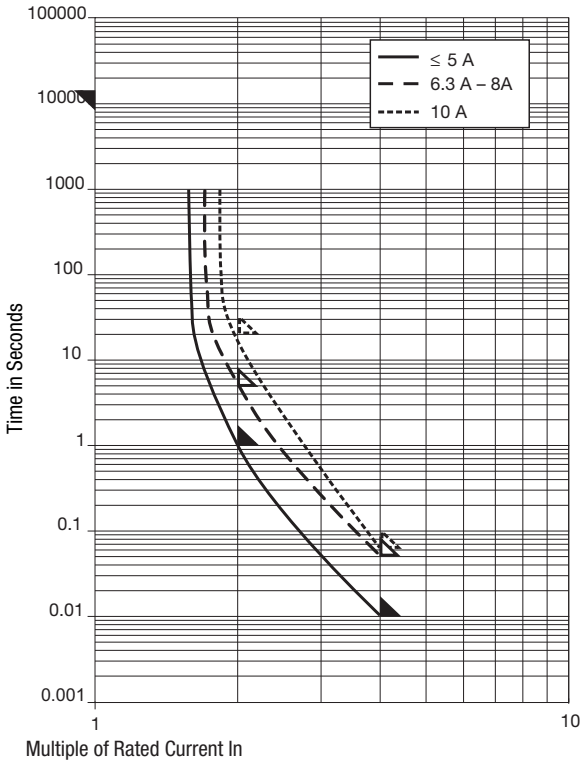
Order Number	Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 In typ [mV]	Power Dissipation 1.0 In typ [mW]	Melting I²t 4.0 In typ [A²s]	cULus	CCC
3404.0003.xx	0.063	125	125	1)	2550	160	0.00011	●	●
3404.0004.xx	0.1	125	125	1)	1770	180	0.00067	●	●
3404.0049.xx	0.125	125	125	1)	1770	220	0.0011	●	●
3404.0005.xx	0.16	125	125	1)	1700	270	0.0018	●	●
3404.0006.xx	0.25	125	125	1)	990	250	0.0058	●	●
3404.0043.xx	0.35	125	125	1)	990	350	0.0076	●	●
3404.0044.xx	0.375	125	125	1)	990	370	0.013	●	●
3404.0007.xx	0.4	125	125	1)	960	380	0.016	●	●
3404.0045.xx	0.5	125	125	1)	350	150	0.01	●	●
3404.0008.xx	0.63	125	125	1)	290	180	0.02	●	●
3404.0046.xx	0.75	125	125	1)	260	200	0.031	●	●
3404.0009.xx	1	125	125	1)	220	220	0.078	●	●
3404.0010.xx	1.25	125	125	1)	220	280	0.14	●	●
3404.0047.xx	1.5	125	125	1)	200	300	0.24	●	●
3404.0011.xx	1.6	125	125	1)	200	320	0.27	●	●
3404.0012.xx	2	125	125	1)	200	400	0.44	●	●
3404.0013.xx	2.5	125	125	1)	190	480	0.97	●	●
3404.0014.xx	3	125	125	1)	190	570	1.3	●	●
3404.0048.xx	3.15	125	125	1)	190	600	1.2	●	●
3404.0015.xx	3.5	125	125	1)	140	490	1.6	●	●
3404.0016.xx	4	125	125	1)	140	560	2.1	●	●
3404.0017.xx	5	125	125	1)	140	700	2.9	●	●
3404.0018.xx	6.3	125	125	1)	110	690	14	●	●
3404.0019.xx	7	125	125	1)	105	740	16	●	●
3404.0020.xx	8	125	125	1)	100	800	20	●	●
3404.0021.xx	10	125	125	1)	80	800	54	●	●

1) 100 A @ 125 VAC/DC

Packaging Unit

.xx = .11 Plastic Bag (100 pcs.)
.xx = .22 Blister Tape 18 cm Reel (750 pcs.)
.xx = .24 Blister Tape 33 cm Reel (3000 pcs.)

OMF 125


100000
10000
1000
100
10
1
0.1
0.01
0.001
Time in Seconds
≤ 5 A
6.3 A – 8A
10 A
1
10
Multiple of Rated Current In