MGA



UL 248-14 · 125 VAC/DC · Super-Quick-Acting FF

RoHS COMPLIANT

c UL us CCC

Describtion
- ESA approved fuses on request (ESA/SCC GS No. 4008)
- 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

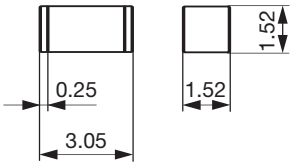
Technical Data

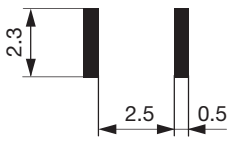
Rated Voltage	32 - 125 VAC/DC
Rated Current	0.2 - 5 A
Breaking Capacity	50 A
Characteristic	Super-Quick-Acting FF
Mounting	PCB,SMT
Admissible Ambient Air Temp.	-50 °C to 150 °C
Climatic Category	50/150/21 acc. to IEC 60068-1
Material: Housing	Ceramic
Material: Terminals	Tin-Plated Nickel
Unit Weight	0.03 g
Stock Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	none

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
Life Test	MIL-STD-202, Method 108A (1000h @ 0.42*In @ 70°C)
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)
Thermal Shock	MIL-STD-202, Method 107D (200 air-to-air cycles from -55 to +125°C)
Resistance to Solvents	MIL-STD-202, Method 215A
Flammability	min. UL 94V-1 (acc. to EIA/IS-722, Test 4.12)

Dimensions

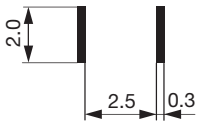
Length 3.2 mm





Solder pads wave soldering

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Solder pads reflow soldering

Pre-Arcing Time

Rated Current In	1.0 x In min.	2.5 x In max.
0.2 A - 5 A	4 h	5 s

Variants

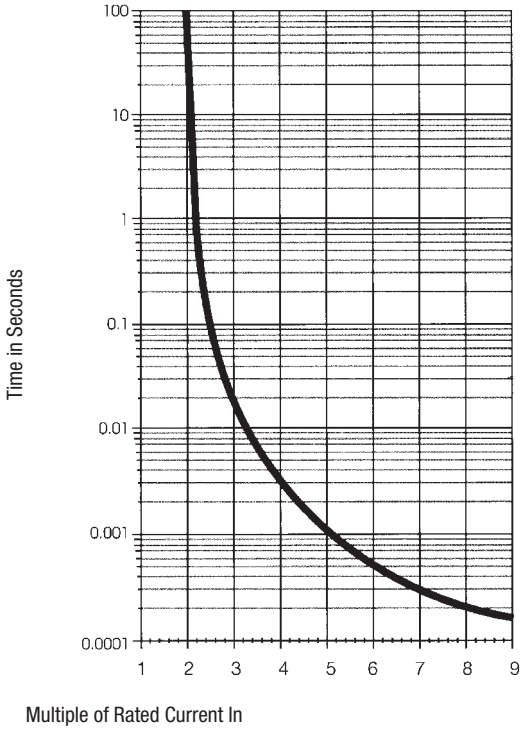
Order Number	Rated Current [A]	Rated Voltage [V]	Breaking Capacity	Voltage Drop 1.0 In typ [mV]	Power Dissipation 1.0 In typ [mW]	Cold Resistance typ [mΩ]	Melting I²t 4.0 In typ [A²s]	cULus	CCC
3410.0021.xx	0.2	125	1)	202	40	870	0.0013	●	●
3410.0022.xx	0.25	125	1)	176	44	663	0.0034	●	●
3410.0025.xx	0.375	125	1)	140	52	320	0.0037	●	●
3410.0027.xx	0.5	125	1)	126	68	210	0.0067	●	●
3410.0029.xx	0.75	125	1)	118	88	113	0.015	●	●
3410.0031.xx	1	125	1)	114	114	96	0.043	●	●
3410.0033.xx	1.5	125	1)	123	185	56	0.12	●	●
3410.0035.xx	2	125	1)	117	234	39	0.2	●	●
3410.0036.xx	2.5	125	1)	115	288	29	0.54	●	●
3410.0037.xx	3	125	1)	112	336	23	0.34	●	●
3410.0240.xx	4	63	2)	110	440	17	0.76	●	●
3410.0141.xx	5	32	3)	90	450	12	1.04	●	●

1) 50 A @ 125 VAC/DC
2) 50 A @ 63 VAC/DC
3) 50 A @ 32 VAC/DC

Packaging Unit

.01 Blister Tape (100 pcs.)
.02 Blister Tape 18 cm Reel (750 pcs.)
.03 Blister Tape 18 cm Reel (3000 pcs.)
.04 Blister Tape 33 cm Reel (10000 pcs.)

MGA


100
10
1
0.1
0.01
0.001
0.0001
Time in Seconds
1
2
3
4
5
6
7
8
9
Multiple of Rated Current In