

Surface Mount Fuse, 5 x 20 mm, Time-Lag T, H, 250 VAC, Au plating



IEC 60127-2 · 250 VAC · 300 VDC · Time-Lag T

See below:

[Approvals and Compliances](#)

Description

- Directly solderable on printed circuit boards
- IEC Standard Fuse
- H = High Breaking Capacity

Applications

- Primary protection on SMD PCBs

References

[Packaging Details](#)

Weblinks

[pdf datasheet](#), [html-datasheet](#), [General Product Information](#), [Packaging details](#), [Distributor-Stock-Check](#), [Detailed request for product](#), [Microsite](#)

Technical Data

Rated Voltage	250 VAC, 300 VDC
Rated current	1 - 16 A
Breaking Capacity	500 A - 1500 A
Characteristic	Time-Lag T
Mounting	PCB, SMT
Admissible Ambient Air Temp.	-55 °C to 125 °C
Climatic Category	55/125/21 acc. to IEC 60068-1
Material: Housing	Ceramic
Material: Terminals	Gold-Plated Copper Alloy
Unit Weight	1 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 , Rated current, Rated Voltage, Characteristic, Breaking Capacity

Soldering Methods	Reflow Soldering Profile
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
Resistance to Vibration	acc. to IEC 60068-2-6, test Fc
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)
Case Resistance	acc. to EIA/IS-722, Test 4.7 >100 MΩ (between leads and body)
Resistance to Solvents	MIL-STD-202, Method 215A

Approvals and Compliances

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in [Details about Approvals](#)

Approvals

The approval mark is used by the testing authorities to certify compliance with the safety requirements placed on electronic products.

Approval Reference Type: SMD-SPT

Approval Logo	Certificates	Certification Body	Description
	VDE Approvals	VDE	VDE Certificate Number: 40010881
	UL Approvals	UL	UL File Number: E41599
	CQC Approvals	CQC	CCC Certificate Number: 2011010207464143

Product standards

Product standards that are referenced

Organization	Design	Standard	Description
	Designed according to	UL 248-14	Low voltage fuses - Part 14: Additional fuses
	Designed according to	CSA22.2 No. 248.14	Low-Voltage Fuses - Part 14: Supplemental Fuses

Application standards

Application standards where the product can be used

Organization	Design	Standard	Description
	Designed for applications acc.	IEC/UL 60950	IEC 60950-1 includes the basic requirements for the safety of information technology equipment.

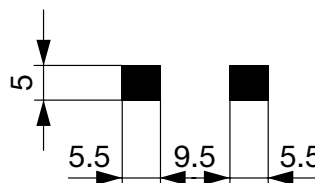
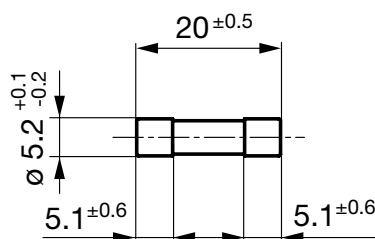
Compliances

The product complies with following Guide Lines

Identification	Details	Initiator	Description
	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
	RoHS	SCHURTER AG	EU Directive RoHS 2011/65/EU
	China RoHS	SCHURTER AG	The law SJ / T 11363-2006 (China RoHS) has been in force since 1 March 2007. It is similar to the EU directive RoHS.
	REACH	SCHURTER AG	On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force.

Dimension [mm]

20 mm

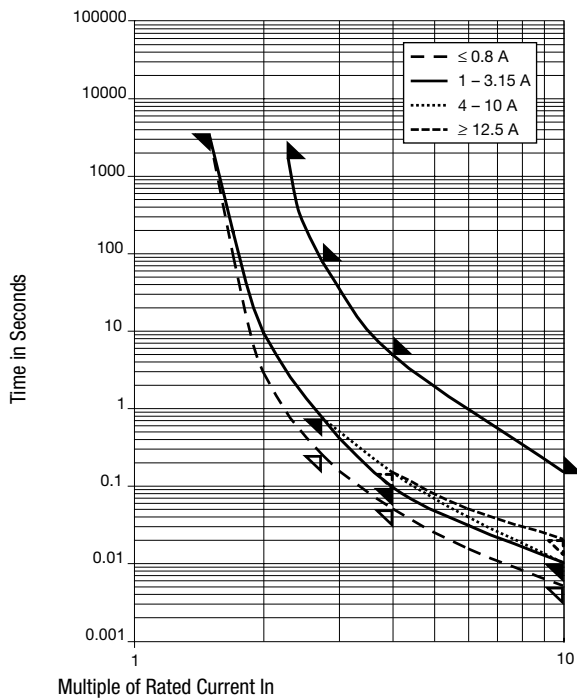


Soldering pads

Pre-Arcing Time

Rated Current In	1.5 x In min.	2.1 x In max.	2.75 x In min.	2.75 x In max.	4.0 x In min.	4.0 x In max.	10.0 x In min.	10.0 x In max.
1 A - 3.15 A	60 min	30 min	750 ms	80 s	95 ms	5 s	10 ms	150 ms
4 A - 6.3 A	60 min	30 min	750 ms	80 s	150 ms	5 s	10 ms	150 ms
8 A - 10 A	30 min	30 min	750 ms	80 s	150 ms	5 s	10 ms	150 ms
12.5 A - 16 A	15 min	30 min	750 ms	80 s	150 ms	5 s	20 ms	150 ms

Time-Current-Curves



All Variants

Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 I_n max. [mV]	Voltage Drop 1.0 I_n typ. [mV]	Power Dissipation 1.5 I_n max. [mW]	Power Dissipation 1.5 I_n typ. [mW]	Melting I^2t 10.0 Intyp. [A ² s]	  	Order Number
1	250	300	1)	250	180	2500	500	1.1	● ● ●	0001.2704.11
1	250	300	1)	250	180	2500	500	1.1	● ● ●	0001.2704.22
1.25	250	300	1)	250	150	2500	500	1.86	● ● ●	0001.2705.11
1.25	250	300	1)	250	150	2500	500	1.86	● ● ●	0001.2705.22
1.6	250	300	1)	200	130	2500	500	4.35	● ● ●	0001.2706.11
1.6	250	300	1)	200	130	2500	500	4.35	● ● ●	0001.2706.22
2	250	300	1)	190	120	2500	600	9.2	● ● ●	0001.2707.11
2	250	300	1)	190	120	2500	600	9.2	● ● ●	0001.2707.22
2.5	250	300	1)	180	100	2500	600	11.7	● ● ●	0001.2708.11
2.5	250	300	1)	180	100	2500	600	11.7	● ● ●	0001.2708.22
3.15	250	300	1)	140	100	4000	800	33.7	● ● ●	0001.2709.11
3.15	250	300	1)	140	100	4000	800	33.7	● ● ●	0001.2709.22
4	250	150	2)	100	90	4000	900	62.4	● ● ●	0001.2710.11
4	250	150	2)	100	90	4000	900	62.4	● ● ●	0001.2710.22
5	250	150	2)	100	90	4000	1200	97.5	● ● ●	0001.2711.11
5	250	150	2)	100	90	4000	1200	97.5	● ● ●	0001.2711.22
6.3	250	150	2)	100	70	4000	1200	171	● ● ●	0001.2712.11
6.3	250	150	2)	100	70	4000	1200	171	● ● ●	0001.2712.22
8	250	150	3)	100	70	4000	1300	268	● ● ●	0001.2713.11
8	250	150	3)	100	70	4000	1300	268	● ● ●	0001.2713.22
10	250	150	3)	100	70	4000	2100	400	● ● ●	0001.2714.11
10	250	150	3)	100	70	4000	2100	400	● ● ●	0001.2714.22
12.5	250	125	4)	100	70	4000	2500	563	● ● ●	0001.2715.11
12.5	250	125	4)	100	70	4000	2500	563	● ● ●	0001.2715.22
16	250	125	4)	100	70	4000	3000	1272	● ● ●	0001.2716.11
16	250	125	4)	100	70	4000	3000	1272	● ● ●	0001.2716.22

Most Popular.

Rated Cur- rent [A]	Rated Vol- tage [VAC]	Rated Vol- tage [VDC]	Breaking Capacity	Voltage Drop 1.0 I _n max. [mV]	Voltage Drop 1.0 I _n typ. [mV]	Power Dissi- pation 1.5 I _n max. [mW]	Power Dissi- pation 1.5 I _n typ. [mW]	Melting I ² t 10.0 Intyp. [A²s]		Order Number
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Availability for all products can be searched real-time:<https://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER>

- 1) IEC: 1500 A @ 250 VAC, p.f. = 0.7 - 0.8
- 1) UL: 10 kA @ 125 VAC, p.f. = 0.7 - 0.8 / 1500 A @ 250 VAC, p.f. = 0.7 - 0.8 / 1500 A @ 300 VDC
- 2) IEC: 1500 A @ 250 VAC, p.f. = 0.7 - 0.8
- 2) UL: 10 kA @ 125 VAC, p.f. = 0.7 - 0.8 / 1500 A @ 250 VAC, p.f. = 0.7 - 0.8 / 1500 A @ 150 VDC
- 3) IEC: 1000 A @ 250 VAC
- 3) UL: 1000 A @ 250 VAC / 1500 A @ 150 VDC
- 4) UL: 500 A @ 125 VAC, p.f. = 0.7 - 0.8 / 1000 A @ 125 VAC / 500 A @ 250 VAC / 1500 A @ 125 VDC

Packaging Unit	.xx = .11 Plastic Bag (100 pcs.)
	.xx = .22 Blister Tape 33 cm Reel (1000 pcs.)