

Surface Mount Fuse, 1.05 x 0.55 mm, Super-Quick-Acting FF, 32 VDC



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

See below:
[Approvals and Compliances](#)

Description

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

Unique Selling Proposition

- Space constrained applications

Applications

- Secondary Protection
- Circuits without inrush
- Semiconductor protection
- Digital Consumer Electronics

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	32VDC	Soldering Methods	Reflow Soldering Profile
Rated current	0.25 - 5A	Solderability	245 °C / 3 sec acc. to IEC 60068-2-58, Test Td
Breaking Capacity	35A	Resistance to Soldering Heat	260 +0/-5 °C / 30 sec acc. to IPC/JEDEC J-STD-020D, Level 1
Characteristic	Super-Quick-Acting FF	Moisture Resistance Test	MIL-STD-202, Method 106E (50 cycles in a temp./mister chamber)
Mounting	PCB,SMT	Terminal Strength	MIL-STD-202, Method 211A (Deflection of board 1 mm for 1 minute)
Admissible Ambient Air Temp.	-55 °C to 90 °C	Case Resistance	acc. to EIA/IS-722, Test 4.7 >100 MΩ (between leads and body)
Climatic Category	55/125/21 acc. to IEC 60068-1	Resistance to Solvents	MIL-STD-202, Method 215A
Material: Housing	Thermoset	Flammability	min. UL 94V-1 (acc. to EIA/IS-722, Test 4.12)
Material: Terminals	Gold-Plated Copper Alloy		
Unit Weight	0.004 g		
Storage Conditions	0 °C to 60 °C, max. 70% r.h.		
Product Marking	see table of variants		

Approvals and Compliances



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

SCHURTER products are designed for use in industrial environments. They have approvals from independent testing bodies according to national and international standards. Products with specific characteristics and requirements such as required in the automotive sector according to IATF 16949, medical technology according to ISO 134485 or in the aerospace industry can be offered exclusively with customer-specific, individual agreements by SCHURTER.

Approvals

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

Approval Reference Type: USF 0402

Approval Logo	Certificates	Certification Body	Description
	UL Approvals	UL	UL File Number: E41599
	CSA Approvals	CSA	CSA Certification Record: 248899


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

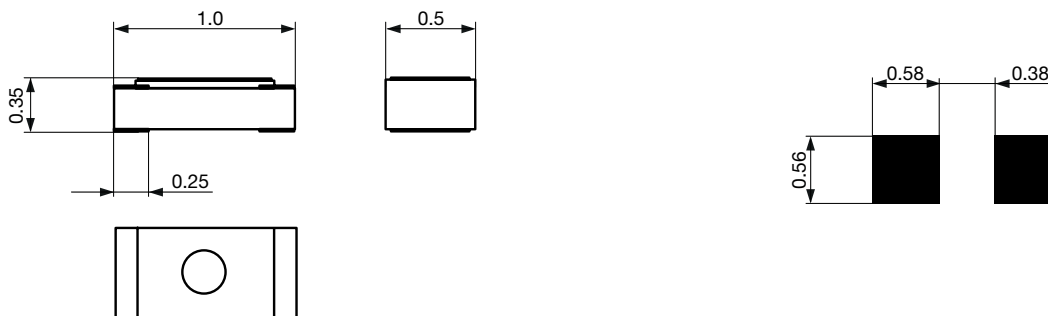
Organization	Design	Standard	Description
	Designed for applications acc.	IEC/UL 60950	IEC 60950-1 includes the basic requirements for the safety of information technology equipment.

Compliances

The product complies with following Guide Lines

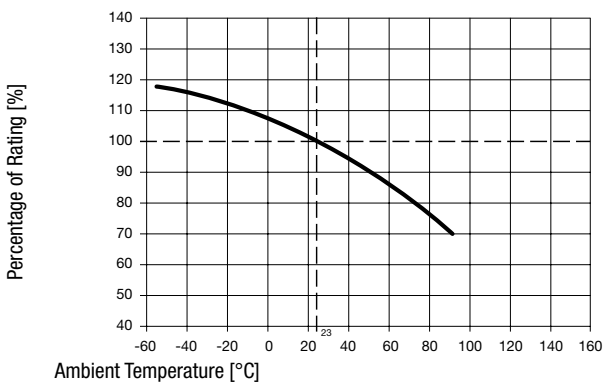
Identification	Details	Initiator	Description
	RoHS	SCHURTER AG	EU Directive RoHS 2011/65/EU
	Halogen Free	SCHURTER AG	SCHURTER strives to offer our customers halogen free products.
	REACH	SCHURTER AG	On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force.

Dimension [mm]



Soldering pads

Derating Curves

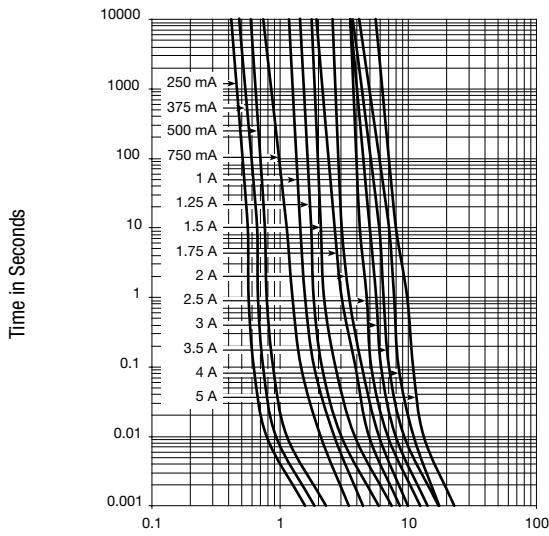


Pre-Arcing Time

Rated Current I_n 1.0 x I_n min 2.0 x I_n max
















0.25 A - 5 A	4 h	60 s
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Time-Current-Curves



Current in Amperes

All Variants

Rated Current [A]	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 I ² t 8.0 In typ. [A ² s]		Order Number
0.25	32		1)	90	92	360	0.0025	● ●	3414.0111.26
0.375	32		1)	90	85	193	0.0035	● ●	3414.0112.26
0.5	32		1)	90	93	160	0.0053	● ●	3414.0113.26
0.75	32		1)	90	102	105	0.012	● ●	3414.0114.26
1	32		1)	90	88	73	0.02	● ●	3414.0115.26
1.25	32		1)	90	96	60	0.035	● ●	3414.0116.26
1.5	32		1)	90	87	47	0.056	● ●	3414.0117.26
1.75	32		1)	90	81	39	0.075	● ●	3414.0118.26
2	32		1)	90	71	30	0.1	● ●	3414.0119.26
2.5	32		1)	90	55	20	0.156	● ●	3414.0120.26
3	32		1)	90	61	17	0.2032	● ●	3414.0121.26
3.5	32		1)	90	58	15	0.3017	● ●	3414.0122.26
4	32		1)	90	57	10.5	0.3084	● ●	3414.0123.26
5	32		1)	90	52	8.5	0.531	● ●	3414.0124.26

1) 35 A @ 32 VDC

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

Packaging Unit .xx = .26 Blister Tape 33 cm Reel (10000 pcs.)