

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 I<sup>2</sup>t-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
Rated current	0.25 - 5A
Breaking Capacity	35A
Characteristic	Super-Quick-Acting FF
Mounting	PCB,SMT
Admissible Ambient Air Temp.	-55 °C to 90 °C
Climatic Category	55/125/21 acc. to IEC 60068-1
Material: Housing	Thermoset
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

Soldering Methods	Reflow <a href="#">Soldering Profile</a>
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 leads and body)
Resistance to Solvents	MIL-STD-202, Method 215A
Flammability	min. UL 94V-1 (acc. to EIA/IS-722, Test 4.12)



### 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: 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

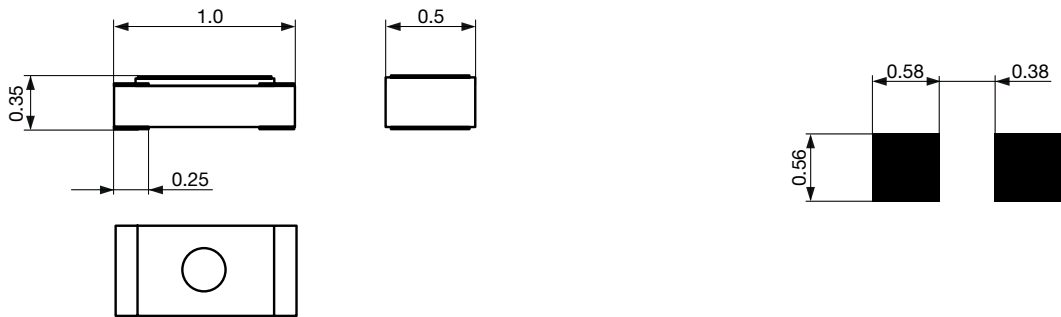
Organization	Design	Standard	Description
	Designed for applications acc.	IEC/UL 60950	IEC 60950-1 includes the basic requirements for the safety of information technology equipment.

Compliances

The product complies with following Guide Lines

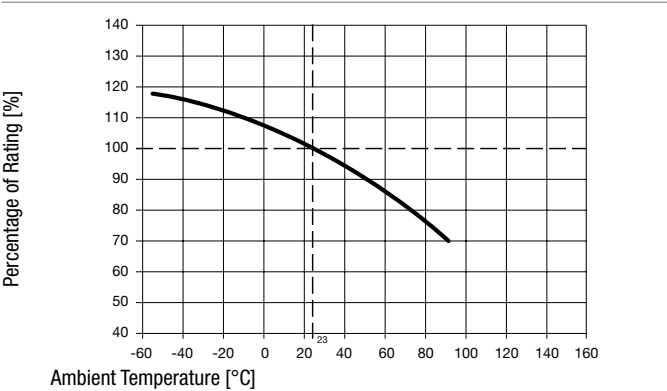
Identification	Details	Initiator	Description
	RoHS	SCHURTER AG	EU Directive RoHS 2011/65/EU
	Halogen Free	SCHURTER AG	SCHURTER strives to offer our customers halogen free products.
	REACH	SCHURTER AG	On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction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

Dimension [mm]



Soldering pads

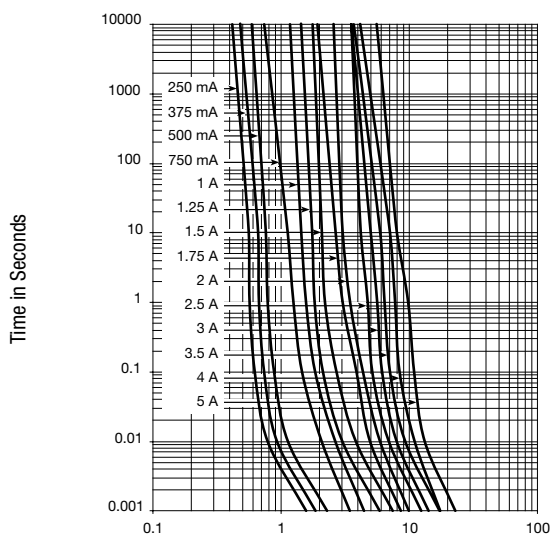
Derating Curves



Pre-Arcing Time

Rated Current In	1.0 x In min	2.0 x In max
0.25 A - 5 A	4 h	60 s

## 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 <sup>2</sup> t 8.0 In typ. [A <sup>2</sup> 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.)