Subminiature Fuse, 8.5 mm, Time-Lag T, 250 VAC, 100 A

IEC 60127-3 · 250 VAC · Time-Lag T

See below:
Approvals and Compliances

Description

- Directly solderable on printed circuit boards
- High breaking capacity

Applications

- Primary Protection on PCB
- Power Supply Adapter for e.g. laptops
- SMPS (Switching Mode Power Supply) for TV's and DVD's

References

Packaging Details
Corresponding Fuseholder FMS (250V)

Weblinks

pdf datasheet, html-datasheet, General Product Information, Packaging details, Distributor-Stock-Check, Detailed request for product

Technical Data

Rated Voltage	250 VAC
Rated current	0.8 - 10 A
Breaking Capacity	100 A
Characteristic	Time-Lag T
Mounting	PCB,THT
Admissible Ambient Air Temp.	-40 °C to 85 °C
Climatic Category	40/085/21 acc. to IEC 60068-1
Material: Housing	Thermoplastic, UL 94V-0
Material: Terminals	Tin-Plated Copper
Unit Weight	0.78 g
Storage Conditions	0 °C to 40 °C, max. 70% r.h.
Product Marking	S, Type, Rated current, Rated Voltage, Characteristic, Approvals

Soldering Methods	Wave Soldering Profile
Solderability	235 °C / 2 sec acc. to IEC 60068-2-20, Test Ta
Resistance to Soldering Heat	260 °C / 10 sec acc. to IEC 60068-2-20, Test Tb
Resistance to Vibration	acc. to IEC 60068-2-6, test Fc
Life Test	1000h @ 0.60 x In @ 70°C (acc. to EIA/IS-722, Test 4.4.1)
Load Humidity Test	MIL-STD-202, Method 103B 0.1 x In @ 0.85 r.H. @ 85°C
Moisture Resistance Test	MIL-STD-202, Method 106E (50 cycles in a temp./mister chamber)
Terminal Strength	Tensile load min. 9 N (acc. to EIA/IS-722, Test 4.5.5)
Case Resistance	acc. to EIA/IS-722, Test 4.7 >100 MΩ (between leeds and body)
Mechanical Shock	MIL-STD-202, Method 213B (Shock 50g, half sine wave, 11 ms)
Resistance to Solvents	MIL-STD-202, Method 215A
Flammability	UL 94V-0 (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: MXT 250

Approval Logo	Certificates	Certification Body	Description
	VDE Approvals	VDE	VDE Certificate Number: 40008838
	UL Approvals	UL	UL File Number: E41599
	UL Approvals	UL	UL File Number: E41599
	CQC Approvals	CQC	CCC Certificate Number:
	CQC Approvals	CQC	CCC Certificate Number:
	KTL Approvals	KTL	Korea Testing Laboratory
	METI Approvals	METI	Japan Electrical Safety and Environment technology Laboratories

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 technologyequipment.

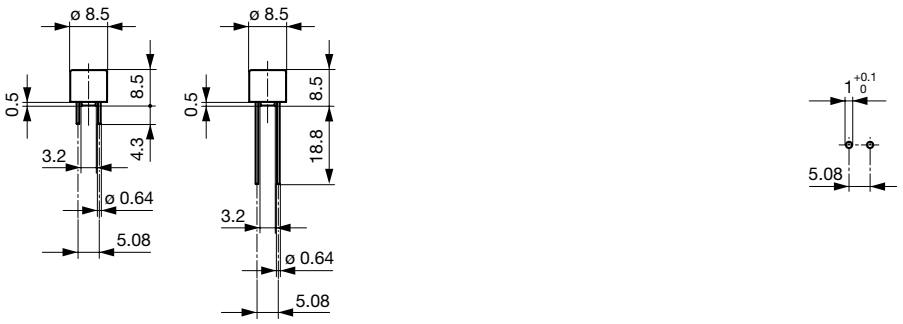
Compliances

The product complies with following Guide Lines

Identification	Details	Initiator	Description
CE	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	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	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]

8.5 mm

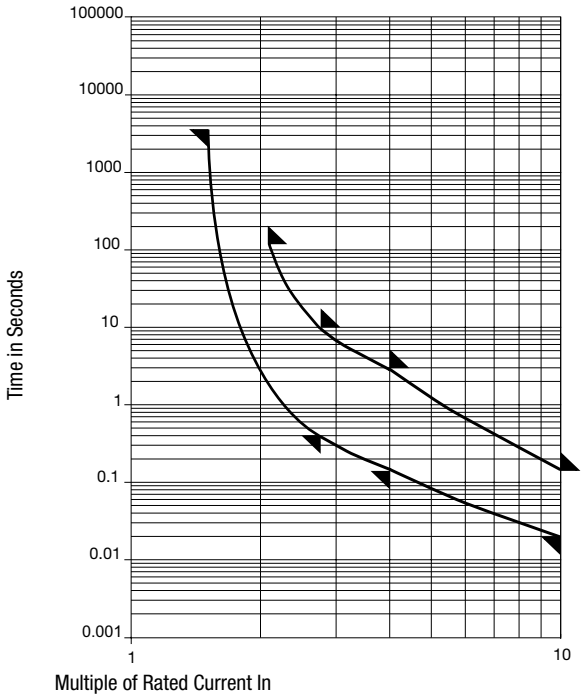


Drilling diagram

Pre-Arcing Time

Rated Current In	1.0 x In min.	1.5 x In min.	2.0 x In max.	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.
0.8 A - 6.3 A	-	60 min	-	120 s	400 ms	10 s	150 ms	3 s	20 ms	150 ms
8 A - 10 A	4 h	-	60 s	-	-	-	-	-	-	-

Time-Current-Curves



All Variants

Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 In max. [mV]	Voltage Drop 1.0 In typ. [mV]	Power Dissipation 1.5 I_n max. [mW]	Melting I^2t 10.0 Intyp. [A^2s]	S	L	T	Order Number
0.8	250	1)	160	128	430	1.5	●		●	0034.6914
1	250	1)	140	130	500	4.4	●		●	0034.6915
1.25	250	1)	130	120	600	6.3	●		●	0034.6916
1.6	250	1)	120	110	730	10	●		●	0034.6917
2	250	1)	100	85	870	16	●		●	0034.6918
2.5	250	1)	100	85	1000	32	●		●	0034.6919
3.15	250	1)	100	75	1200	57	●		●	0034.6920
4	250	1)	100	75	1400	77	●		●	0034.6921
5	250	1)	-	70	-	155			●	0034.6922
6.3	250	1)	-	60	-	262		●	●	0034.6923
8	250	1)	-	62	-	397			●	0034.6924
10	250	1)	-	62	-	440			●	0034.6925
0.8	250	1)	160	128	430	1.5	●			0034.6944
1	250	1)	140	130	500	4.4	●			0034.6945
1.25	250	1)	130	120	600	6.3	●			0034.6946
1.6	250	1)	120	110	730	10	●			0034.6947
2	250	1)	100	85	870	16	●			0034.6948
2.5	250	1)	100	85	1000	32	●			0034.6949
3.15	250	1)	100	75	1200	57	●			0034.6950
4	250	1)	100	75	1400	77	●			0034.6951

Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 In max. [mV]	Voltage Drop 1.0 In typ. [mV]	Power Dissipation 1.5 I_n max. [mW]	Melting I^2t 10.0 Intyp. [A^2s]	S	L	T	Order Number
5	250	1)	-	70	-	155		●		0034.6952
6.3	250	1)	-	60	-	262		●		0034.6953
8	250	1)	-	62	-	397		●		0034.6954
10	250	1)	-	62	-	440		●		0034.6955
0.8	250	1)	160	128	430	1.5			●	0034.6974
1	250	1)	140	130	500	4.4			●	0034.6975
1.25	250	1)	130	120	600	6.3			●	0034.6976
1.6	250	1)	120	110	730	10			●	0034.6977
2	250	1)	100	85	870	16			●	0034.6978
2.5	250	1)	100	85	1000	32			●	0034.6979
3.15	250	1)	100	75	1200	57			●	0034.6980
4	250	1)	100	75	1400	77			●	0034.6981
5	250	1)	-	70	-	155			●	0034.6982
6.3	250	1)	-	60	-	262			●	0034.6983
8	250	2)	-	62	-	397			●	0034.6984
10	250	2)	-	62	-	440			●	0034.6985

Most Popular.

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

1) 100 A @ 250 VAC, cos φ = 1.0

2) 100 A @ 250 VAC, cos φ = 0.95 - 1.0

Packaging Unit

S = Plastic Bag (100 pcs.)
L = Bulk (100 pcs.)
T = Taped 36 cm Reel (750 pcs.)

26.02.2018

The specifications, descriptions and illustrations indicated in this document are based on current information. All content is subject to modifications and amendments. Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability and test each product selected for their own applications.