SMD Fuse, 3.2 x 1.6 mm, Time-Lag T, 32 VAC, 63 VDC

Exemplary part photo depending on part no.

UL 248-14 · 32 VAC · 63 VDC · Time-Lag T

See below:
Approvals and Compliances

Description

- UL characteristic
- High melting I²t-values
- High current ratings up to 25 A
- Impermeable to potting compound

Applications

- Secondary Protection DC and AC
- Circuits with inrush
- LCD Backlight DC-AC Inverter

References

Packaging Details

Weblinks

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

Technical Data

Rated Voltage	32 VAC, 63 VDC
Rated current	7 - 25 A
Breaking Capacity	100 A - 600 A
Characteristic	Time-Lag T
Mounting	PCB,SMT
Admissible Ambient Air Temp.	-55 °C to 90 °C
Climatic Category	55/090/21 acc. to IEC 60068-1
Material: Housing	Fiber-reinforced plastic, UL 94V-0
Material: Terminals	Copper, Ni/Au-plated
Unit Weight	0.006 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	Letter (see variants)

Soldering Methods	Reflow Soldering Profile
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 Sensitivity Level	MSL 1, J-STD-020
Case Resistance	acc. to EIA/IS-722, Test 4.7
Flammability	UL 94V-1
Damp heat, steady state	MIL-STD-202, Method 103
Moisture Resistance Test	MIL-STD-202, Method 106
Thermal Shock	MIL-STD-202, Method 107
Operational Life	MIL-STD-202, Method 108 Condition D
Vibration, High Frequency	MIL-STD-202, Method 204 Condition D
Mechanical Shock	MIL-STD-202, Method 213 Condition F
Resistance to Solvents	MIL-STD-202, Method 215
Temperature Cycling	JESD22, Method JA-104 Condition G
Board Flex	AEC-Q200-005
Terminal Strength	AEC-Q200-006

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 13485 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: UST 1206

Approval Logo	Certificates	Certification Body	Description
c UL us	UL Approvals	UL	UL File Number: E41599

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 62368-1	IEC 62368-1 includes the basic requirements for safety of audio, video, information technology and office equipment.

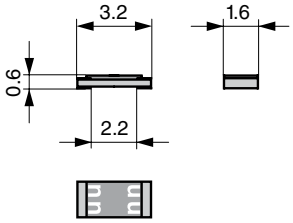
Compliances

The product complies with following Guide Lines

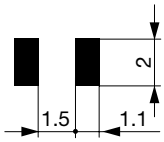
Identification	Details	Initiator	Description
	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
	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.
	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]

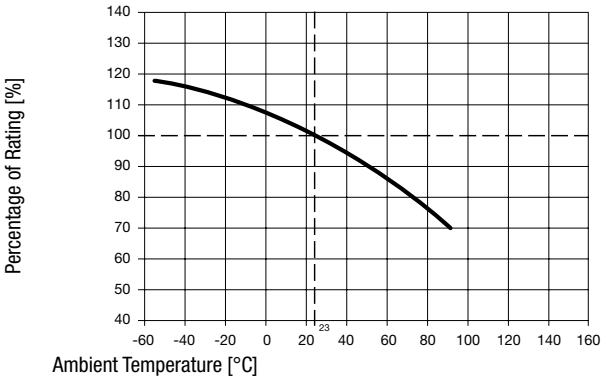
3.2 mm



Reflow soldering pads



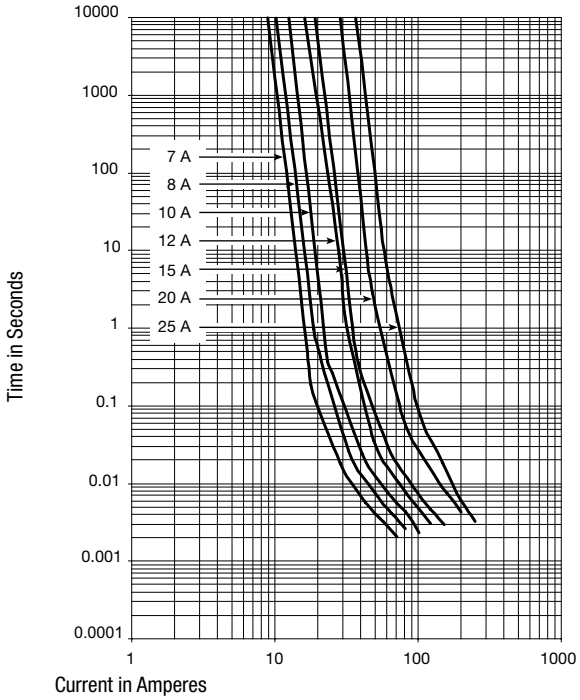
Derating Curves



Pre-Arcing Time

Rated Current In	1.0 x In min.	2.5 x In max.	10.0 x In min.	10.0 x In max.
7 A - 25 A	4 h	5 s	1 ms	10 ms

Time-Current-Curves



All Variants

Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Marking	Breaking Capacity	Voltage Drop 1.0 I_n typ. [mV]	Cold Resistance typ. [mΩ]	Melting I^2t 8.0 I_n typ. [A^2s]	cULus	Order Number	
7	32	63	mm	1)	73	8.7	8.7	●	3413.0326.11	▮
7	32	63	mm	1)	73	8.7	8.7	●	3413.0326.22	
7	32	63	mm	1)	73	8.7	8.7	●	3413.0326.24	▮
7	32	63	mm	1)	73	8.7	8.7	●	3413.0326.26	
8	32	63	nn	1)	60	6.7	14	●	3413.0327.11	▮
8	32	63	nn	1)	60	6.7	14	●	3413.0327.22	
8	32	63	nn	1)	60	6.7	14	●	3413.0327.24	▮
8	32	63	nn	1)	60	6.7	14	●	3413.0327.26	
10	32	63	oo	1)	69	5.5	21	●	3413.0328.11	▮
10	32	63	oo	1)	69	5.5	21	●	3413.0328.22	
10	32	63	oo	1)	69	5.5	21	●	3413.0328.24	▮
10	32	63	oo	1)	69	5.5	21	●	3413.0328.26	
12	32	63	pp	1)	63	3.9	33	●	3413.0329.11	▮
12	32	63	pp	1)	63	3.9	33	●	3413.0329.22	
12	32	63	pp	1)	63	3.9	33	●	3413.0329.24	▮
12	32	63	pp	1)	63	3.9	33	●	3413.0329.26	
15	32	63	qq	1)	57	3.5	65	●	3413.0330.11	
15	32	63	qq	1)	57	3.5	65	●	3413.0330.22	
15	32	63	qq	1)	57	3.5	65	●	3413.0330.24	▮
15	32	63	qq	1)	57	3.5	65	●	3413.0330.26	
20	32	63	rr	1)	53	2.7	110	●	3413.0331.11	
20	32	63	rr	1)	53	2.7	110	●	3413.0331.22	
20	32	63	rr	1)	53	2.7	110	●	3413.0331.24	▮

Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Marking	Breaking Capacity	Voltage Drop 1.0 I_n typ. [mV]	Cold Resistance typ. [mΩ]	Melting I^2t 8.0 I_n typ. [A^2s]	cULus	Order Number
20	32	63	rr	1)	53	2.7	110	●	3413.0331.26
25	32	63	ss	1)	48	2.1	220	●	3413.0332.11
25	32	63	ss	1)	48	2.1	220	●	3413.0332.22
25	32	63	ss	1)	48	2.1	220	●	3413.0332.24
25	32	63	ss	1)	48	2.1	220	●	3413.0332.26

Most Popular.

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

1) UL: 100 A @ 63 VDC, 100 A @ 32 VAC, 400 A @ 32 VDC tau <0.1ms. Additional internal testing: 400 A @ 12 VDC, 600 A @ 9 VDC

Exception: 20 A and 25 A variants are not halogen free

Packaging Unit

.xx = .11 Blister Tape of 100 pcs. in Plastic Bag
.xx = .22 Blister Tape 18 cm Reel (1000 pcs.)
.xx = .24 Blister Tape 25.4 cm Reel (5000 pcs.)
.xx = .26 Blister Tape 33 cm Reel (15000 pcs.)

16.06.2020

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.