UAI 1206

Pulse proof SMD fuse, 1206, 32 VDC, max. ambient temperature of 140 °C

new

UL 248-14 · 32 VDC · Time-Lag T

See below:
Approvals and Compliances

Description

- Chipfuse for highest demands regarding pulse resistant, temperature resistant and mechanical strength
- Impermeable to potting compound

Unique Selling Proposition

- AEC-Q200 qualified
- Pulse and temperature resistant
- Mechanical Shock proved with 1'500 g

Applications

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

References

Weblinks

pdf data sheet, html datasheet, General Product Information, Distributor-Stock-Check, Detailed request for product, Landing Page

Technical Data

Rated Voltage	32 VDC
Rated current	5.3 - 7.5 A
Breaking Capacity	100 A
Characteristic	Time-Lag T
Mounting	PCB,SMT
Admissible Ambient Temp.	-40 °C to 140 °C
Material: Housing	Fiber-reinforced plastic, UL 94V-0
Material: Terminals	Copper, Ni/Au-plated
Unit Weight	0.01 g
Storage Conditions	0 °C to 40 °C, max. 70% r.h.
Storage Capability	max. 3 years @ 25 °C in original packaging
Product Marking	Rated current

Soldering Methods	Reflow Soldering Profile
Solderability	245 °C / 3 sec acc. to IEC 60068-2-58, Test Td
Resistance to Soldering Heat	250 ±5 °C / 30 ±5 sec acc. to JEDEC J-STD-020
Moisture Sensitivity Level	MSL 1, J-STD-020
Case Resistance	acc. to EIA/IS-722, Test 4.7 >100 MΩ (between leeds and body)
Flammability	UL 94V-0 (acc. to EIA/IS-722, Test 4.12)
Damp heat, steady state	MIL-STD-202, Method 103 (1000h / 85°C / 85% humidity)
Immersion	MIL-STD-202, Method 104 Condition B
Thermal Shock	MIL-STD-202, Method 107 (300 air-to-air cycles: -40 to +140°C)
Operational Life	MIL-STD-202, Method 108 Condition D 1000h @ 0.63 x In @ 125°C
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 (acc to. EIA/IS-722, Test 4.11)
Temperature Cycling	JESD22 Method JA-104
Flame Retardance	AEC-Q200-001
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.

Product standards

Product standards that are referenced

Organization	Design	Standard	Description
UL	Designed according to	UL 248-14	Low voltage fuses - Part 14: Supplemental fuses

Application standards

Application standards where the product can be used

Organization	Design	Standard	Description
IEC	Suitable for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements

Compliances

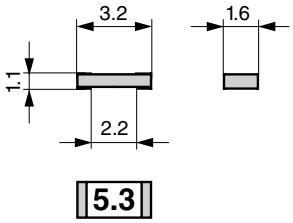
The product complies with following Guide Lines

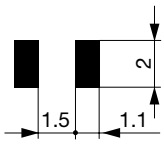
Identification	Details	Initiator	Description
RoHS COMPLIANT	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
	China RoHS	SCHURTER AG	The law SJ / T 11363-2006 (China RoHS) has been in force since 1 March 2007. It is similar to the EU directive RoHS.
REACH	REACH	SCHURTER AG	On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force.
AEC Q200	Automotive	SCHURTER AG	AEC-Q200 is a test standard for passive components used in automotive applications. SCHURTER tests components according to the customer's agreement and is certified according to IATF 16949.

Dimension [mm]

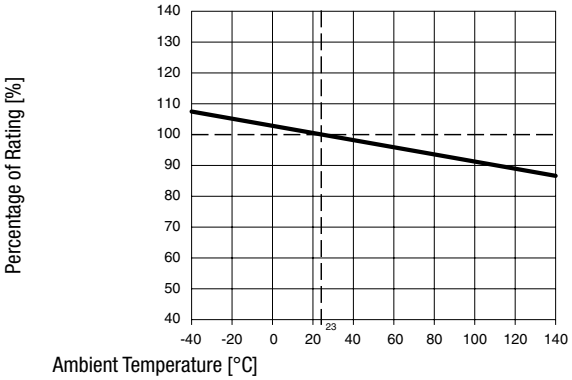
3.2 mm

Reflow soldering pads





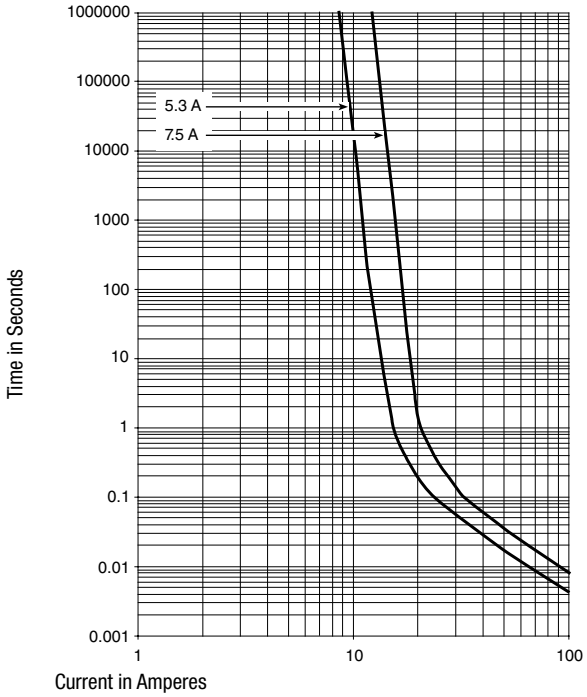
Derating Curves



Pre-Arcing Time

Rated Current In	1.0 x In min.	1.25 x In min.	3.0 x In max.	10.0 x In min.	10.0 x In max.	Test @ 130°C min.
5.3 A	4 h	1 h	1 s	1 ms	10 ms	15 ms / 20 A
7.5 A	4 h	1 h	1 s	1 ms	10 ms	25 ms / 25 A

Time-Current-Curves



All Variants

Rated Current [A]	Rated Voltage [VDC]	Marking	Breaking Capacity	Voltage Drop 1.0 I_n typ. [mV]	Cold Resistance typ. [mΩ]	Melting I^2t 10.0 I_n typ. [A^2s]	Order Number
5.3	32	5.3	1)	55	8.45	5.6	3-110-065
7.5	32	7.5	1)	55	6.1	11.5	3-110-066

1) 100 A @ 32 VDC

Availability for all products can be searched real-time: https://www.schurter.com/en/info-center/support-tools/stock-check-distributors

Packaging Unit
acc. IEC 60286-3 Type 2a

100 pcs. in tape in ESD-plastic bag
1000 pcs. in tape [W: 8mm and P1: 4mm] on reel [A: 18cm]

26.03.2024