USN 1206

Thermal sensitive Fuse, SMD 1206, 32 VDC

new



32 VDC · PCB, SMT

See below:
Approvals and Compliances

Description

- Temperature sensitive SMD fuse
- Customer-specific pre-arcing time characteristic as a function of ambient temperature
- Ensures the complete time-current curve from 0 A to BC
- Impermeable to potting compound used to achieve hermetic seal for use in intrinsically safe applications according to ATEx and IECEx requirements.

Unique Selling Proposition

- Combines a Standard Fuse characteristic with an additional ambient temperature sensitivity
- Ceramic glase fiber inforced material
- Excellent inrush current withstand capability
- High melting I^2t-values

Applications

- Secondary Protection DC and AC
- Automotive electronics
- Intrinsically safe electronics
- Battery protection
- In all electronics with temperature-critical components (eg Mosfet's)

References

Packaging Details

Weblinks

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

Technical Data

Rated Voltage	32 VDC
Rated current	12 A
Breaking Capacity	170 A
Mounting	PCB,SMT
Admissible Ambient Air Temp.	-40 °C to 125 °C
Material: Housing	Epoxyd Glass, UL 94V-0
Material: Terminals	Tin-Plated Copper
Unit Weight	0.01 g
Storage Conditions	0 °C to 40 °C, max. 70% r.h.
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	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 leeds and body)
Resistance to Solvents	MIL-STD-202, Method 215A
Flammability	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

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.

Application standards

Application standards where the product can be used

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

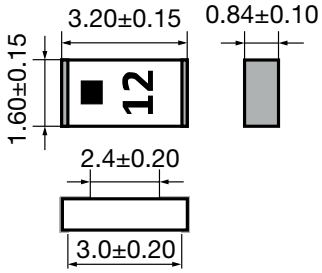
Compliances

The product complies with following Guide Lines

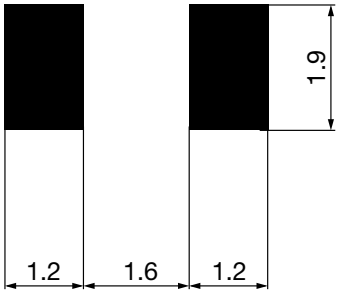
Identification	Details	Initiator	Description
RoHS COMPLIANT	RoHS	SCHURTER AG	EU Directive RoHS 2011/65/EU
REACH	REACH	SCHURTER AG	On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force.
AEC 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



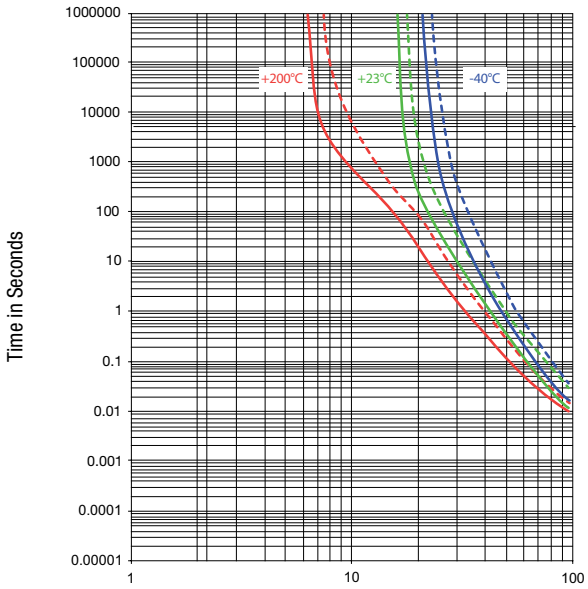
Reflow soldering pads



Pre-Arcing Time

Rated Current In	18 A @ 240°C ±10°C max.	80 A @ 23°C min.
12 A	170 s	10 ms

Time-Current-Curves



-A time-current-curve for a stand fuse would be equal even it ambient temperature is high
-The time-current-curve for USN is shifting to the left while ambient temperature increase

All Variants

Rated current [A]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 In typ. [mV]	Cold Resistance typ. [mΩ]	Order Number
12	32	1)	30	2	3413.0512.11

1) 170 A @ 16 VDC, 80 A @ 32 VDC

Most Popular.

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

Packaging Unit 100 pcs in Plastic Bag

11.01.2018

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.