Thermal sensitive Fuse, SMD 1206, 32 VDC





Temperature sensitive SMD fuse

32 VDC · PCB, SMT

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 I²t-values

Technical Data

Rated Voltage	32VDC
Rated current	12A
Breaking Capacity	170A
Mounting	PCB,SMT
Admissible Ambient Temp.	-40 °C to 125 °C
Material: Housing	Fiber-reinforced plastic, 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

See below: Approvals and Compliances

Applications

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

Weblinks

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

Reflow
Soldering Profile
245 °C / 3 sec acc. to IEC 60068-2-58,
Test Td
260 +0/-5 °C / 30 sec acc. to IPC/JE-
DEC J-STD-020D, Level 1
MSL 1, J-STD-020
acc. to EIA/IS-722, Test 4.7
>100 M Ω (between leeds and body)
UL 94V-1
(acc. to EIA/IS-722, Test 4.12)
MIL-STD-202, Method 106
(50 cycles in a temp./mister chamber)
MIL-STD-202, Method 215
MIL-STD-202, Method 211A
(Deflection of board 1 mm for 1 minute)

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.

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

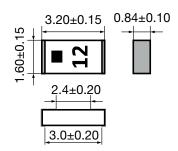
USN 1206

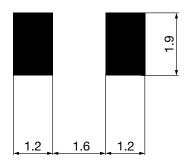
Compliances

The product complies with following Guide Lines

	J		
Identification	Details	Initiator	Description
RoHS	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
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-0200 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		

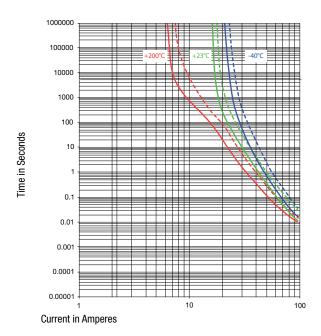
Reflow soldering pads





Pre-Arcing Ti	me	
Rated Current In	18 A @ 240°C ±10°C max.	80 A @ 23°C min.
12 A	200 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

Variants

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

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

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

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