USN 1206

Thermal sensitive Fuse, SMD 1206, 32 VDC

new

32 VDC

RoHS COMPLIANT

Description

- Temperature sensitive SMD fuse
- Customer-specific time-current tripping characteristic as a function of ambient temperature
- Combination of protection against overcurrent and excessive ambient temperature
- High melting I^2t-values
- Impermeable to potting compound

Standards

- Qualification according to AEC-Q200 on request

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, Approvals, CE declaration of conformity, RoHS, CHINA-RoHS, REACH, Distributor-Stock-Check, Detailed request for product, Landing Page

Technical Data

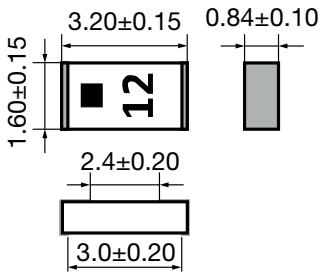
Rated Voltage	32 VDC
Rated current	12 A
Breaking Capacity	170 A
Mounting	PCB,SMT
Admissible Ambient Air Temp.	-40 °C to 125 °C
Material: Housing	Epoxyd Glass, UL 94V-0
Material: Terminals	Tin-Plated Copper
Unit Weight	0.01 g
Storage Conditions	0 °C to 40 °C, max. 70% r.h.
Product Marking	Rated current

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)

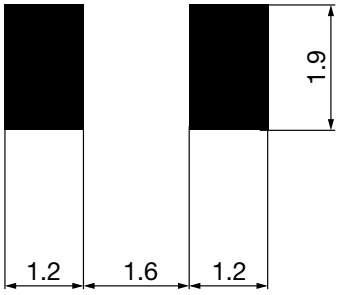
Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in General Product Information

Dimension [mm]

3.2 mm



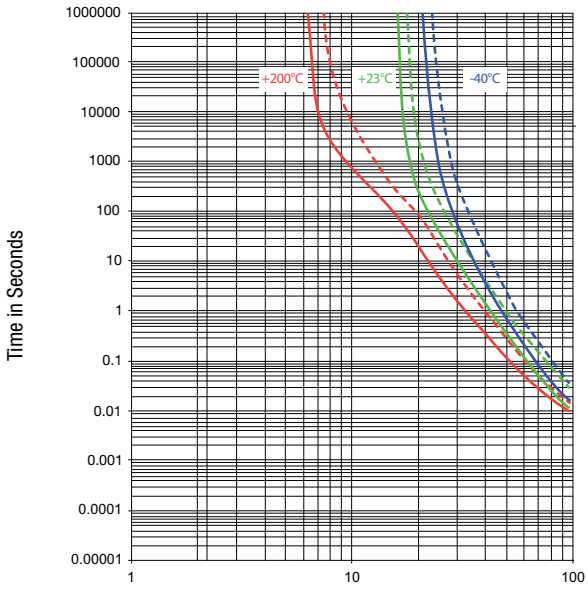
Reflow soldering pads



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:http://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER

Packaging Unit	100 pcs in Plastic Bag

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