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 datasheet, 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 | Epoxyd Glass, 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<br>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<br>(50 cycles in a temp./mister chamber) |
| Terminal Strength | MIL-STD-202, Method 211A<br>(Deflection of board 1 mm for 1 minute) |
| Case Resistance | acc. to EIA/IS-722, Test 4.7<br>>100 MΩ (between leeds and body) |
| Resistance to Solvents | MIL-STD-202, Method 215A |
| Flammability | UL 94V-1<br>(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.

## 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 60950 | IEC 60950-1 includes the basic requirements for the safety of information technology equipment. |

## Compliances

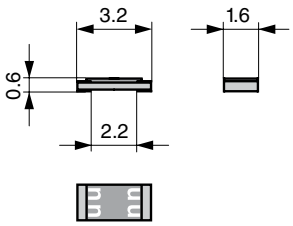
The product complies with following Guide Lines

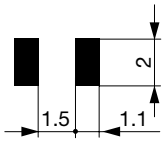
| Identification | Details | Initiator | Description |
|---|---|---|---|
| | CE declaration of conformity | SCHURTER AG | The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation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

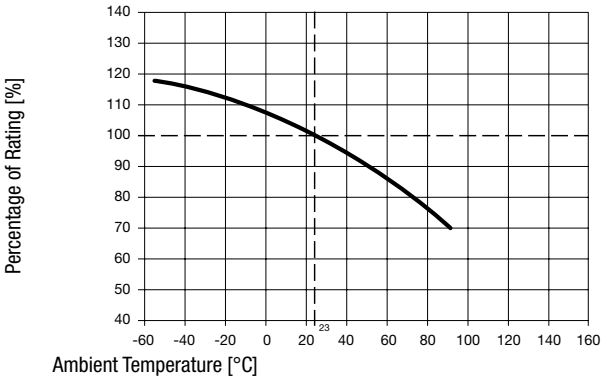
3.2 mm

Reflow soldering pads



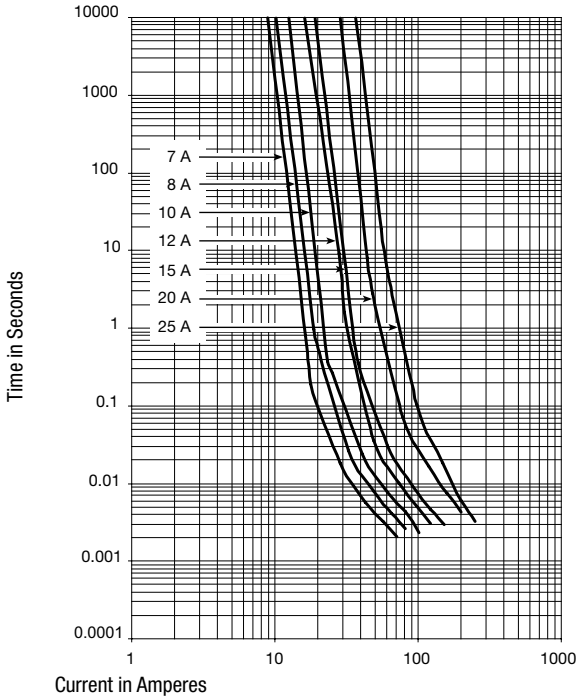

## Derating Curves



## 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 In typ. [mV] | Cold Resistance typ. [mΩ] | Melting I²t 8.0 In typ. [A²s] | cULus | Order Number | |
|---|---|---|---|---|---|---|---|---|---|---|
| 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 | ● | 3413.0327.22 | |
| 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 | ● | 3413.0328.22 | |
| 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 | ● | 3413.0329.22 | |
| 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 | ● | 3413.0330.22 | |
| 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 | ● | 3413.0331.22 | |
| 20 | 32 | 63 | rr | 1) | 53 | 2.7 | 110 | ● | 3413.0331.24 | ▮ |
| 20 | 32 | 63 | rr | 1) | 53 | 2.7 | 110 | ● | 3413.0331.26 | |
| 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.

| Rated Current [A] | Rated Voltage [VAC] | Rated Voltage [VDC] | Marking | Breaking Capacity | Voltage Drop 1.0 In typ. [mV] | Cold Resistance typ. [mΩ] | Melting I²t 8.0 In typ. [A²s] | Order Number |
|---|---|---|---|---|---|---|---|---|

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 = .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.)

03.12.2018

# Mouser Electronics

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3413.0328.22 3413.0332.22 3413.0330.22 3413.0329.22 3413.0331.22 3413.0326.22 3413.0326.24 3413.0326.26 3413.0327.22 3413.0327.24 3413.0327.26 3413.0328.24 3413.0328.26 3413.0329.24 3413.0329.26 3413.0330.24 3413.0330.26 3413.0331.24 3413.0331.26 3413.0332.24 3413.0332.26 3413.0330.11 3413.0328.11 3413.0332.11 3413.0327.11 3413.0326.11 3413.0331.11