

Surface Mount Fuse, 5 x 20 mm, Time-Lag T, L, 250 VAC, Au plating



## IEC 60127-2 · 250 VAC · Time-Lag T

See below:

### Approvals and Compliances

#### Description

- Directly solderable on printed circuit boards
- L = Low Breaking Capacity
- For rated current 1 A to 16 A, SMD-SPT is recommended

#### Applications

- Primary protection on SMD PCBs

#### Weblinks

[pdf data sheet](#), [html datasheet](#), [General Product Information](#), [Distributor-Stock-Check](#), [Detailed request for product](#), [Microsite](#)

#### Technical Data

|                              |                                                                                                                                                       |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rated Voltage                | 250 VAC                                                                                                                                               |
| Rated current                | 0.05 - 20 A                                                                                                                                           |
| Breaking Capacity            | 35 A - 125 A                                                                                                                                          |
| Characteristic               | Time-Lag T                                                                                                                                            |
| Mounting                     | PCB, SMT                                                                                                                                              |
| Admissible Ambient Air Temp. | -55 °C to 125 °C                                                                                                                                      |
| Climatic Category            | 55/125/21 acc. to IEC 60068-1                                                                                                                         |
| Material: Housing            | Glass                                                                                                                                                 |
| Material: Terminals          | Gold-Plated Copper Alloy                                                                                                                              |
| Unit Weight                  | 1.05 g                                                                                                                                                |
| Storage Conditions           | 0 °C to 60 °C, max. 70% r.h.                                                                                                                          |
| Product Marking              |  , Rated current, Rated Voltage, Characteristic, Breaking Capacity |

|                              |                                                                         |
|------------------------------|-------------------------------------------------------------------------|
| Soldering Methods            | Reflow<br><a href="#">Soldering Profile</a>                             |
| Solderability                | 245 °C / 3 sec acc. to IEC 60068-2-58, Test Td                          |
| Resistance to Soldering Heat | 260 °C / 10 sec acc. to IEC 60068-2-58, Test Td                         |
| Moisture Sensitivity Level   | MSL 1, J-STD-020                                                        |
| Case Resistance              | acc. to EIA/IS-722, Test 4.7<br>>100 MΩ (between leads and body)        |
| Resistance to Vibration      | acc. to IEC 60068-2-6, test Fc                                          |
| Moisture Resistance Test     | MIL-STD-202, Method 106<br>(50 cycles in a temp./mister chamber)        |
| Thermal Shock                | MIL-STD-202, Method 107D<br>(200 air-to-air cycles from -55 to +125 °C) |
| Load Humidity Test           | MIL-STD-202, Method 103<br>0.1 x In @ 0.85 r.H. @ 85 °C                 |
| Resistance to Solvents       | MIL-STD-202, Method 215                                                 |
| Terminal Strength            | MIL-STD-202, Method 211A<br>(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.

#### Approvals

The approval mark is used by the testing authorities to certify compliance with the safety requirements placed on electronic products.

Approval Reference Type: SMD-FST 5x20

| Approval Logo                                                                       | Certificates                  | Certification Body | Description                              |
|-------------------------------------------------------------------------------------|-------------------------------|--------------------|------------------------------------------|
|  | <a href="#">VDE Approvals</a> | VDE                | VDE Certificate Number: 40011522         |
|  | <a href="#">UL Approvals</a>  | UL                 | UR File Number: E41599                   |
|  | <a href="#">CCC Approvals</a> | CCC                | CCC Certificate Number: 2020970207000122 |
|  | <a href="#">CQC Approvals</a> | CQC                | CQC Certificate Number: CQC13012100246   |

## Product standards

Product standards that are referenced

| Organization                                                                     | Design                | Standard           | Description                                     |
|----------------------------------------------------------------------------------|-----------------------|--------------------|-------------------------------------------------|
|  | Designed according to | IEC 60127-2/3      | Miniature fuses. Part 2. Cartridge fuse links   |
|  | Designed according to | UL 248-14          | Low voltage fuses - Part 14: Supplemental 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                                                                                   |
|----------------------------------------------------------------------------------|--------------------------------|----------------|-----------------------------------------------------------------------------------------------|
|  | 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                                                                                                                                                                                           |
|------------------------------------------------------------------------------------|------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <a href="#">CE declaration of conformity</a>   | 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. |
|    | <a href="#">UKCA declaration of conformity</a> | SCHURTER AG | The UKCA marking declares that the product complies with the applicable requirements laid down in the British Amendment of Regulation (EC) 765/2008.                                                  |
|    | 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                                          | 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]

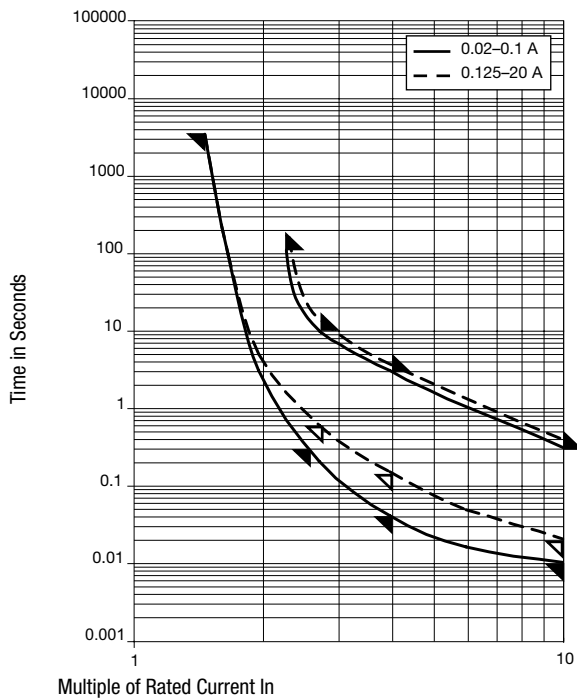


Soldering pads

## Pre-Arcing Time

| Rated Current In | 1.5 x In min. | 2.1 x In max. | 2.75 x In min. | 2.75 x In max. | 4.0 x In min. | 4.0 x In max. | 10.0 x In min. | 10.0 x In max. |
|------------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|----------------|
| 0.05 A - 0.1 A   | 60 min        | 120 s         | 300 ms         | 10 s           | 40 ms         | 3 s           | 10 ms          | 300 ms         |
| 0.125 A - 6.3 A  | 60 min        | 120 s         | 600 ms         | 10 s           | 150 ms        | 3 s           | 20 ms          | 300 ms         |
| 8 A - 10 A       | 30 min        | 120 s         | 600 ms         | 10 s           | 150 ms        | 3 s           | 20 ms          | 300 ms         |
| 12.5 A - 20 A    | 15 min        | 120 s         | 600 ms         | 10 s           | 150 ms        | 3 s           | 20 ms          | 300 ms         |

## Time-Current-Curves



## All Variants

| Rated Current [A] | Rated Voltage [VAC] | Breaking Capacity | Voltage Drop 1.0 $I_n$ max. [mV] | Voltage Drop 1.0 $I_n$ typ. [mV] | Power Dissipation 1.5 $I_n$ max. [mW] | Power Dissipation 1.5 $I_n$ typ. [mW] | Melting $I^2t$ 10.0 $I_n$ typ. [A <sup>2</sup> s] |     | Order Number |
|-------------------|---------------------|-------------------|----------------------------------|----------------------------------|---------------------------------------|---------------------------------------|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 0.05              | 250                 | 1)                | 3500                             | 950                              | 1600                                  | 125                                   | 0.0363                                            | ● ● ●                                                                                                                                                                                                                                                                                                                                                   | 0034.5604.11 |
| 0.05              | 250                 | 1)                | 3500                             | 950                              | 1600                                  | 125                                   | 0.0363                                            | ● ● ●                                                                                                                                                                                                                                                                                                                                                   | 0034.5604.22 |
| 0.063             | 250                 | 1)                | 3000                             | 1300                             | 1600                                  | 200                                   | 0.0401                                            | ● ● ●                                                                                                                                                                                                                                                                                                                                                   | 0034.5605.11 |
| 0.063             | 250                 | 1)                | 3000                             | 1300                             | 1600                                  | 200                                   | 0.0401                                            | ● ● ●                                                                                                                                                                                                                                                                                                                                                   | 0034.5605.22 |
| 0.08              | 250                 | 1)                | 3000                             | 1100                             | 1600                                  | 300                                   | 0.057                                             | ● ● ●                                                                                                                                                                                                                                                                                                                                                   | 0034.5606.11 |
| 0.08              | 250                 | 1)                | 3000                             | 1100                             | 1600                                  | 300                                   | 0.057                                             | ● ● ●                                                                                                                                                                                                                                                                                                                                                   | 0034.5606.22 |
| 0.1               | 250                 | 1)                | 2500                             | 565                              | 1600                                  | 155                                   | 0.107                                             | ● ● ●                                                                                                                                                                                                                                                                                                                                                   | 0034.5607.11 |
| 0.1               | 250                 | 1)                | 2500                             | 565                              | 1600                                  | 155                                   | 0.107                                             | ● ● ●                                                                                                                                                                                                                                                                                                                                                   | 0034.5607.22 |
| 0.125             | 250                 | 1)                | 2000                             | 400                              | 1600                                  | 200                                   | 0.064                                             | ● ● ●                                                                                                                                                                                                                                                                                                                                                   | 0034.5608.11 |
| 0.125             | 250                 | 1)                | 2000                             | 400                              | 1600                                  | 200                                   | 0.064                                             | ● ● ●                                                                                                                                                                                                                                                                                                                                                   | 0034.5608.22 |
| 0.16              | 250                 | 1)                | 1900                             | 415                              | 1600                                  | 185                                   | 0.23                                              | ● ● ●                                                                                                                                                                                                                                                                                                                                                   | 0034.5609.11 |
| 0.16              | 250                 | 1)                | 1900                             | 415                              | 1600                                  | 185                                   | 0.23                                              | ● ● ●                                                                                                                                                                                                                                                                                                                                                   | 0034.5609.22 |
| 0.2               | 250                 | 1)                | 1500                             | 270                              | 1600                                  | 200                                   | 0.256                                             | ● ● ●                                                                                                                                                                                                                                                                                                                                                   | 0034.5610.11 |
| 0.2               | 250                 | 1)                | 1500                             | 270                              | 1600                                  | 200                                   | 0.256                                             | ● ● ●                                                                                                                                                                                                                                                                                                                                                   | 0034.5610.22 |
| 0.25              | 250                 | 1)                | 1300                             | 210                              | 1600                                  | 200                                   | 0.238                                             | ● ● ●                                                                                                                                                                                                                                                                                                                                                   | 0034.5611.11 |
| 0.25              | 250                 | 1)                | 1300                             | 210                              | 1600                                  | 200                                   | 0.238                                             | ● ● ●                                                                                                                                                                                                                                                                                                                                                   | 0034.5611.22 |
| 0.315             | 250                 | 1)                | 1100                             | 170                              | 1600                                  | 200                                   | 0.544                                             | ● ● ●                                                                                                                                                                                                                                                                                                                                                   | 0034.5612.11 |
| 0.315             | 250                 | 1)                | 1100                             | 170                              | 1600                                  | 200                                   | 0.544                                             | ● ● ●                                                                                                                                                                                                                                                                                                                                                   | 0034.5612.22 |
| 0.4               | 250                 | 1)                | 1000                             | 150                              | 1600                                  | 200                                   | 0.768                                             | ● ● ●                                                                                                                                                                                                                                                                                                                                                   | 0034.5613.11 |
| 0.4               | 250                 | 1)                | 1000                             | 150                              | 1600                                  | 200                                   | 0.768                                             | ● ● ●                                                                                                                                                                                                                                                                                                                                                   | 0034.5613.22 |
| 0.5               | 250                 | 1)                | 900                              | 160                              | 1600                                  | 200                                   | 3                                                 | ● ● ●                                                                                                                                                                                                                                                                                                                                                   | 0034.5614.11 |
| 0.5               | 250                 | 1)                | 900                              | 160                              | 1600                                  | 200                                   | 3                                                 | ● ● ●                                                                                                                                                                                                                                                                                                                                                   | 0034.5614.22 |
| 0.63              | 250                 | 1)                | 300                              | 160                              | 1600                                  | 200                                   | 4.35                                              | ● ● ●                                                                                                                                                                                                                                                                                                                                                   | 0034.5615.11 |
| 0.63              | 250                 | 1)                | 300                              | 160                              | 1600                                  | 200                                   | 4.35                                              | ● ● ●                                                                                                                                                                                                                                                                                                                                                   | 0034.5615.22 |
| 0.8               | 250                 | 1)                | 250                              | 120                              | 1600                                  | 200                                   | 3.85                                              | ● ● ●                                                                                                                                                                                                                                                                                                                                                   | 0034.5616.11 |
| 0.8               | 250                 | 1)                | 250                              | 120                              | 1600                                  | 200                                   | 3.85                                              | ● ● ●                                                                                                                                                                                                                                                                                                                                                   | 0034.5616.22 |
| 1                 | 250                 | 1)                | 150                              | 60                               | 1600                                  | 200                                   | 3.3                                               | ● ● ●                                                                                                                                                                                                                                                                                                                                                   | 0034.5617.11 |
| 1                 | 250                 | 1)                | 150                              | 60                               | 1600                                  | 200                                   | 3.3                                               | ● ● ●                                                                                                                                                                                                                                                                                                                                                   | 0034.5617.22 |

| Rated Current [A] | Rated Voltage [VAC] | Breaking Capacity | Voltage Drop 1.0 I <sub>n</sub> max. [mV] | Voltage Drop 1.0 I <sub>n</sub> typ. [mV] | Power Dissipation 1.5 I <sub>n</sub> max. [mW] | Power Dissipation 1.5 I <sub>n</sub> typ. [mW] | Melting I <sup>2</sup> t 10.0 I <sub>n</sub> typ. [A <sup>2</sup> s] |  | Order Number |
|-------------------|---------------------|-------------------|-------------------------------------------|-------------------------------------------|------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------|
| 1.25              | 250                 | 1)                | 150                                       | 60                                        | 1600                                           | 300                                            | 5.5                                                                  | ● ● ●                                                                               | 0034.5618.11 |
| 1.25              | 250                 | 1)                | 150                                       | 60                                        | 1600                                           | 300                                            | 5.5                                                                  | ● ● ●                                                                               | 0034.5618.22 |
| 1.6               | 250                 | 1)                | 150                                       | 60                                        | 1600                                           | 300                                            | 10.5                                                                 | ● ● ●                                                                               | 0034.5619.11 |
| 1.6               | 250                 | 1)                | 150                                       | 60                                        | 1600                                           | 300                                            | 10.5                                                                 | ● ● ●                                                                               | 0034.5619.22 |
| 2                 | 250                 | 1)                | 150                                       | 60                                        | 1600                                           | 300                                            | 16                                                                   | ● ● ●                                                                               | 0034.5620.11 |
| 2                 | 250                 | 1)                | 150                                       | 60                                        | 1600                                           | 300                                            | 16                                                                   | ● ● ●                                                                               | 0034.5620.22 |
| 2.5               | 250                 | 1)                | 120                                       | 60                                        | 1600                                           | 400                                            | 21.9                                                                 | ● ● ●                                                                               | 0034.5621.11 |
| 2.5               | 250                 | 1)                | 120                                       | 60                                        | 1600                                           | 400                                            | 21.9                                                                 | ● ● ●                                                                               | 0034.5621.22 |
| 3.15              | 250                 | 1)                | 100                                       | 60                                        | 1600                                           | 500                                            | 47                                                                   | ● ● ●                                                                               | 0034.5622.11 |
| 3.15              | 250                 | 1)                | 100                                       | 60                                        | 1600                                           | 500                                            | 47                                                                   | ● ● ●                                                                               | 0034.5622.22 |
| 4                 | 250                 | 2)                | 100                                       | 60                                        | 1600                                           | 800                                            | 68.3                                                                 | ● ● ●                                                                               | 0034.5623.11 |
| 4                 | 250                 | 2)                | 100                                       | 60                                        | 1600                                           | 800                                            | 68.3                                                                 | ● ● ●                                                                               | 0034.5623.22 |
| 5                 | 250                 | 2)                | 100                                       | 60                                        | 1600                                           | 900                                            | 102                                                                  | ● ● ●                                                                               | 0034.5624.11 |
| 5                 | 250                 | 2)                | 100                                       | 60                                        | 1600                                           | 900                                            | 102                                                                  | ● ● ●                                                                               | 0034.5624.22 |
| 6.3               | 250                 | 2)                | 100                                       | 60                                        | 1600                                           | 1000                                           | 190                                                                  | ● ● ●                                                                               | 0034.5625.11 |
| 6.3               | 250                 | 2)                | 100                                       | 60                                        | 1600                                           | 1000                                           | 190                                                                  | ● ● ●                                                                               | 0034.5625.22 |
| 8                 | 250                 | 2)                | 100                                       | 60                                        | 4000                                           | 1300                                           | 275                                                                  | ● ● ●                                                                               | 0034.5626.11 |
| 8                 | 250                 | 2)                | 100                                       | 60                                        | 4000                                           | 1300                                           | 275                                                                  | ● ● ●                                                                               | 0034.5626.22 |
| 10                | 250                 | 2)                | 100                                       | 60                                        | 4000                                           | 1300                                           | 520                                                                  | ● ● ●                                                                               | 0034.5627.11 |
| 10                | 250                 | 2)                | 100                                       | 60                                        | 4000                                           | 1300                                           | 520                                                                  | ● ● ●                                                                               | 0034.5627.22 |
| 12.5              | 250                 | 3)                | -                                         | 60                                        | -                                              | 2500                                           | 750                                                                  | ● ● ●                                                                               | 0034.5628.11 |
| 12.5              | 250                 | 3)                | -                                         | 60                                        | -                                              | 2500                                           | 750                                                                  | ● ● ●                                                                               | 0034.5628.22 |
| 16                | 250                 | 2)                | -                                         | 60                                        | -                                              | 3300                                           | 1638                                                                 | ● ● ●                                                                               | 0034.5629.11 |
| 16                | 250                 | 2)                | -                                         | 60                                        | -                                              | 3300                                           | 1638                                                                 | ● ● ●                                                                               | 0034.5629.22 |
| 20                | 250                 | 2)                | -                                         | 60                                        | -                                              | 4200                                           | 3057                                                                 | ● ● ●                                                                               | 0034.5630.11 |
| 20                | 250                 | 2)                | -                                         | 60                                        | -                                              | 4200                                           | 3057                                                                 | ● ● ●                                                                               | 0034.5630.22 |

Most Popular.

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

1) 35 A @ 250 VAC

2) 10 In @ 250 VAC

|                         |           |                                                           |
|-------------------------|-----------|-----------------------------------------------------------|
| <b>Packaging Unit</b>   | .xx = .11 | 100 pcs. in ESD-plastic bag                               |
| acc. IEC 60286-3 Type 3 | .xx = .22 | 1000 pcs. in tape [W: 32mm and P1: 8mm] on reel [A: 33cm] |