

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



IEC 60127-2 · 250VAC · Time-Lag T



**Description**

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

**Standards**

- IEC 60127-2/3
- UL 248-14
- CSA C22.2 no. 248.14

**Approvals**

- VDE Certificate Number: 40011522
- UL File Number: E41599

**Applications**

- Primary Protection on SMD PCB

**References**

[Packaging Details](#)

**Weblinks**

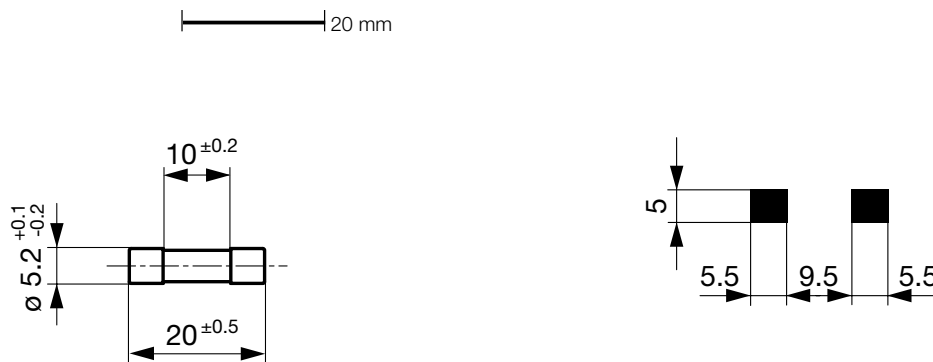
[General Product Information](#), [Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

**Technical Data**

|                              |   |
|------------------------------|---|
| Rated Voltage                | 250VAC  |
| Rated Current                | 0.05 - 20A  |
| Breaking Capacity            | 35A - 125A  |
| 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              | Current, Voltage, Characteristic, Breaking Capacity |

|                              |   |
|------------------------------|---|
| Soldering Methods            | Reflow  |
| Solderability                | 245 °C / 3sec acc. to IEC 60068-2-58, Test Td                       |
| Resistance to Soldering Heat | 260 °C / 10sec acc. to IEC 60068-2-58, Test Td                      |
| Resistance to Vibration      | acc. to IEC 60068-2-6, test Fc                                      |
| Load Humidity Test           | MIL-STD-202, Method 103B (1000h @ 0.1"ln @ 0.85 r.h. @ 85°C)        |
| 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)    |
| Thermal Shock                | MIL-STD-202, Method 107D (200 air-to-air cycles from -55 to +125°C) |
| Case Resistance              | acc. to EIA/IS-722, Test 4.7 >100 MΩ (between leads and body)       |
| Resistance to Solvents       | MIL-STD-202, Method 215A  |

**Dimensions**




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         |

## Variants

| Rated Current [A] | Rated Voltage [VAC] | Breaking Capacity | Voltage Drop 1.0 In max. [mV] | Voltage Drop 1.0 In typ. [mV] | Power Dissipation 1.5 In max. [mW] | Power Dissipation 1.5 In typ. [mW] | Melting I <sup>2</sup> t 10.0 Intyp. [A <sup>2</sup> s] |  |   | Order Number |
|-------------------|---------------------|-------------------|-------------------------------|-------------------------------|------------------------------------|------------------------------------|---|---|---|--------------|
| 0.05              | 250                 | 1)                | 3500                          | 950                           | 1600                               | 125                                | 0.0363  | ●   | ● | 0034.5604.xx |
| 0.063             | 250                 | 1)                | 3000                          | 1300                          | 1600                               | 200                                | 0.0401  | ●   | ● | 0034.5605.xx |
| 0.08              | 250                 | 1)                | 3000                          | 1100                          | 1600                               | 300                                | 0.057   | ●   | ● | 0034.5606.xx |
| 0.1               | 250                 | 1)                | 2500                          | 565                           | 1600                               | 155                                | 0.107   | ●   | ● | 0034.5607.xx |
| 0.125             | 250                 | 1)                | 2000                          | 400                           | 1600                               | 200                                | 0.064   | ●   | ● | 0034.5608.xx |
| 0.16              | 250                 | 1)                | 1900                          | 415                           | 1600                               | 185                                | 0.23  | ●   | ● | 0034.5609.xx |
| 0.2               | 250                 | 1)                | 1500                          | 270                           | 1600                               | 200                                | 0.256   | ●   | ● | 0034.5610.xx |
| 0.25              | 250                 | 1)                | 1300                          | 210                           | 1600                               | 200                                | 0.238   | ●   | ● | 0034.5611.xx |
| 0.315             | 250                 | 1)                | 1100                          | 170                           | 1600                               | 200                                | 0.544   | ●   | ● | 0034.5612.xx |
| 0.4               | 250                 | 1)                | 1000                          | 150                           | 1600                               | 200                                | 0.768   | ●   | ● | 0034.5613.xx |
| 0.5               | 250                 | 1)                | 900                           | 160                           | 1600                               | 200                                | 3   | ●   | ● | 0034.5614.xx |
| 0.63              | 250                 | 1)                | 300                           | 160                           | 1600                               | 200                                | 4.35  | ●   | ● | 0034.5615.xx |
| 0.8               | 250                 | 1)                | 250                           | 120                           | 1600                               | 200                                | 3.85  | ●   | ● | 0034.5616.xx |
| 1                 | 250                 | 1)                | 150                           | 60                            | 1600                               | 200                                | 3.3   | ●   | ● | 0034.5617.xx |
| 1.25              | 250                 | 1)                | 150                           | 60                            | 1600                               | 300                                | 5.5   | ●   | ● | 0034.5618.xx |
| 1.6               | 250                 | 1)                | 150                           | 60                            | 1600                               | 300                                | 10.5  | ●   | ● | 0034.5619.xx |
| 2                 | 250                 | 1)                | 150                           | 60                            | 1600                               | 300                                | 16  | ●   | ● | 0034.5620.xx |
| 2.5               | 250                 | 1)                | 120                           | 60                            | 1600                               | 400                                | 21.9  | ●   | ● | 0034.5621.xx |
| 3.15              | 250                 | 1)                | 100                           | 60                            | 1600                               | 500                                | 47  | ●   | ● | 0034.5622.xx |
| 4                 | 250                 | 2)                | 100                           | 60                            | 1600                               | 800                                | 68.3  | ●   | ● | 0034.5623.xx |
| 5                 | 250                 | 2)                | 100                           | 60                            | 1600                               | 900                                | 102   | ●   | ● | 0034.5624.xx |
| 6.3               | 250                 | 2)                | 100                           | 60                            | 1600                               | 1000                               | 190   | ●   | ● | 0034.5625.xx |
| 8                 | 250                 | 2)                | 100                           | 60                            | 4000                               | 1300                               | 275   | ●   | ● | 0034.5626.xx |
| 10                | 250                 | 2)                | 100                           | 60                            | 4000                               | 1300                               | 520   | ●   | ● | 0034.5627.xx |
| 12.5              | 250                 | 3)                | -                             | 60                            | -                                  | 2500                               | 750   | ●   | ● | 0034.5628.xx |
| 16                | 250                 | 3)                | -                             | 60                            | -                                  | 3300                               | 1638  | ●   | ● | 0034.5629.xx |
| 20                | 250                 | 3)                | -                             | 60                            | -                                  | 4200                               | 3057  | ●   | ● | 0034.5630.xx |

1) 35 A @ 250 VAC

2) 10 In @ 250 VAC

3) 125 A @ 250 VAC

## Packaging Unit

.xx = .11 Plastic Bag (100 pcs.)

.xx = .22 Blister Tape 33 cm Reel (1000 pcs.)

Time-Current-Curves

