

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



IEC 60127-2 · 250 VAC · 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

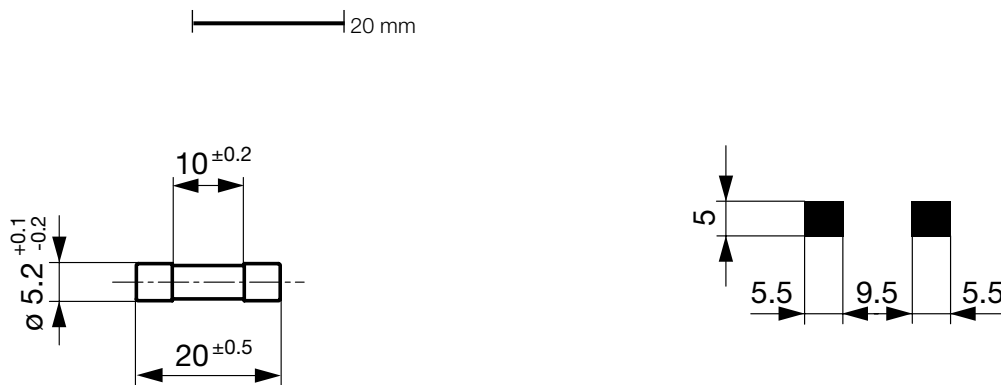
[pdf-datasheet](#), [html-datasheet](#), [General Product Information](#), [Approvals](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [e-Shop](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#), [Detailed request for product](#)

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, Dielectric strength, Characteristic, Breaking Capacity |

| | |
|------------------------------|------------------------------------------------------------------------|
| Soldering Methods | Reflow |
| Solderability | 245 °C / 3 sec 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 0.1 x In @ 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 I _n max. [mW] | Power Dissipation 1.5 I _n typ. [mW] | Melting I ² t 10.0 Intyp. [A ² 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

