

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



IEC 60127-2 · 250 VAC · 300 VDC · Time-Lag T



Description

- Directly solderable on printed circuit boards
- IEC Standard Fuse
- H = High Breaking Capacity

Standards

- IEC 60127-2/5
- UL 248-14
- CSA C22.2 no. 248.14

Approvals

- VDE Certificate Number: 40010881
- UL File Number: E41599

Applications

- Primary Protection on SMD PCB


References

[Packaging Details](#)

Weblinks

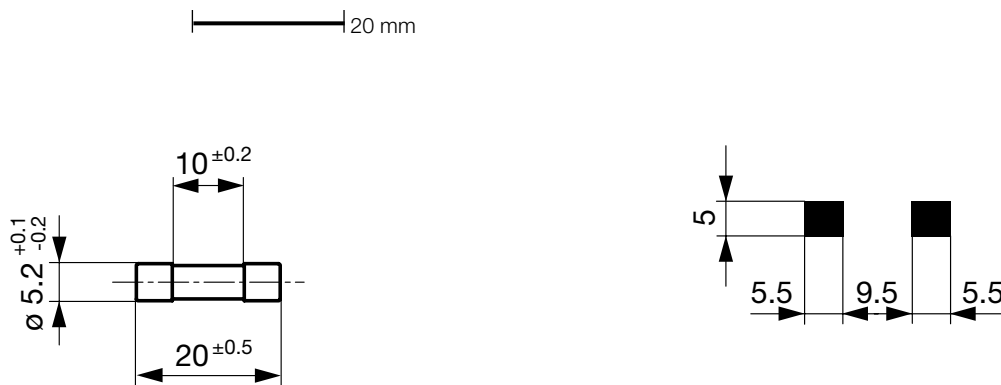
[pdf-datasheet](#), [html-datasheet](#), [General Product Information](#), [Approvals](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [e-Shop](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#), [Detailed request for product](#)

Technical Data

| | |
|------------------------------|---|
| Rated Voltage | 250VAC, 300VDC |
| Rated Current | 1 - 16A |
| Breaking Capacity | 500A - 1500A |
| 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 | Ceramic |
| Material: Terminals | Gold-Plated Copper Alloy |
| Unit Weight | 1 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 |
| 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 I _n | 1.5 x I _n min. | 2.1 x I _n max. | 2.75 x I _n min. | 2.75 x I _n max. | 4.0 x I _n min. | 4.0 x I _n max. | 10.0 x I _n min. | 10.0 x I _n max. |
|------------------------------|---------------------------|---------------------------|----------------------------|----------------------------|---------------------------|---------------------------|----------------------------|----------------------------|
| 1 A - 3.15 A | 60 min | 30 min | 750 ms | 80 s | 95 ms | 5 s | 10 ms | 150 ms |
| 4 A - 6.3 A | 60 min | 30 min | 750 ms | 80 s | 150 ms | 5 s | 10 ms | 150 ms |
| 8 A - 10 A | 30 min | 30 min | 750 ms | 80 s | 150 ms | 5 s | 10 ms | 150 ms |
| 12.5 A - 16 A | 15 min | 30 min | 750 ms | 80 s | 150 ms | 5 s | 20 ms | 150 ms |

Variants

| Rated Current [A] | Rated Voltage [VAC] | Rated Voltage [VDC] | 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 ² t 10.0 I _n Intyp. [A ² s] |  | Order Number |
|-------------------|---------------------|---------------------|-------------------|---|---|--|--|--|---|--------------|
| 1 | 250 | 300 | 1) | 250 | 180 | 2500 | 500 | 1.1 | ● ● | 0001.2704.xx |
| 1.25 | 250 | 300 | 1) | 250 | 150 | 2500 | 500 | 1.86 | ● ● | 0001.2705.xx |
| 1.6 | 250 | 300 | 1) | 200 | 130 | 2500 | 500 | 4.35 | ● ● | 0001.2706.xx |
| 2 | 250 | 300 | 1) | 190 | 120 | 2500 | 600 | 9.2 | ● ● | 0001.2707.xx |
| 2.5 | 250 | 300 | 1) | 180 | 100 | 2500 | 600 | 11.7 | ● ● | 0001.2708.xx |
| 3.15 | 250 | 300 | 1) | 140 | 100 | 4000 | 800 | 33.7 | ● ● | 0001.2709.xx |
| 4 | 250 | 150 | 2) | 100 | 90 | 4000 | 900 | 62.4 | ● ● | 0001.2710.xx |
| 5 | 250 | 150 | 2) | 100 | 90 | 4000 | 1200 | 97.5 | ● ● | 0001.2711.xx |
| 6.3 | 250 | 150 | 2) | 100 | 70 | 4000 | 1200 | 171 | ● ● | 0001.2712.xx |
| 8 | 250 | 150 | 3) | 100 | 70 | 4000 | 1300 | 268 | ● ● | 0001.2713.xx |
| 10 | 250 | 150 | 3) | 100 | 70 | 4000 | 2100 | 400 | ● ● | 0001.2714.xx |
| 12.5 | 250 | 125 | 4) | - | 70 | - | 3100 | 563 | ● ● | 0001.2715.xx |
| 16 | 250 | 125 | 4) | - | 70 | - | 4000 | 1272 | ● ● | 0001.2716.xx |

1) IEC: 1500 A @ 250 VAC, p.f. = 0.7 - 0.8

1) UL: 10 kA @ 125 VAC, p.f. = 0.7 - 0.8 / 1500 A @ 250 VAC, p.f. = 0.7 - 0.8 / 1500 A @ 300 VDC

2) IEC: 1500 A @ 250 VAC, p.f. = 0.7 - 0.8

2) UL: 10 kA @ 125 VAC, p.f. = 0.7 - 0.8 / 1500 A @ 250 VAC, p.f. = 0.7 - 0.8 / 1500 A @ 150 VDC

3) IEC: 1000 A @ 250 VAC

3) UL: 1000 A @ 250 VAC / 1500 A @ 150 VDC

4) UL: 500 A @ 125 VAC, p.f. = 0.7 - 0.8 / 1000 A @ 125 VAC / 500 A @ 250 VAC / 1500 A @ 125 VDC

Packaging Unit

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

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

Time-Current-Curves

