

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 PCBs


**References**

[Packaging Details](#)

**Weblinks**

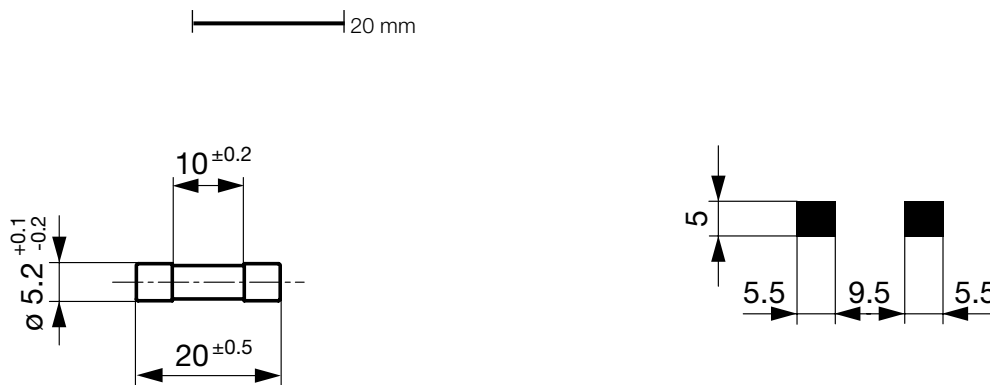
[pdf-datasheet](#), [html-datasheet](#), [General Product Information](#), [Approvals](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [e-Shop](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#), [Detailed request for product](#)

**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, Rated voltage, 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                                            |

**Dimension**

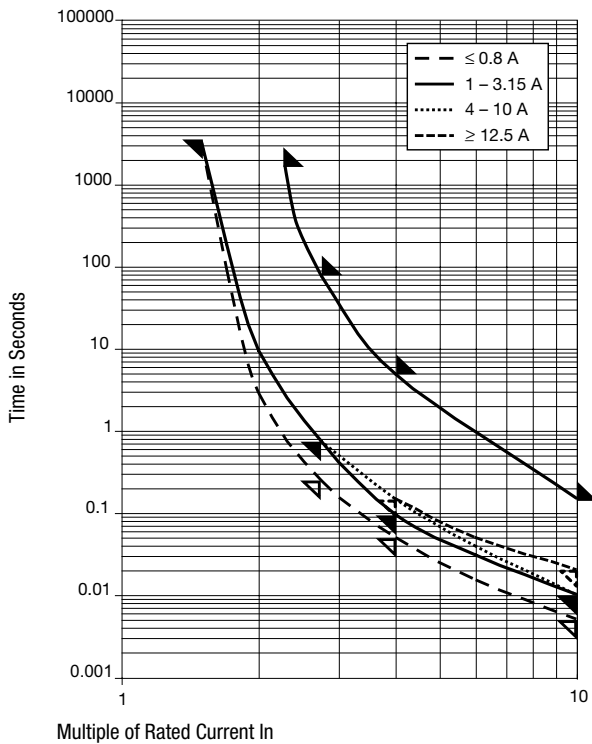


Soldering pads

## Pre-Arcing Time

| Rated Current I <sub>n</sub> | 1.5 x I <sub>n</sub> min. | 2.1 x I <sub>n</sub> max. | 2.75 x I <sub>n</sub> min. | 2.75 x I <sub>n</sub> max. | 4.0 x I <sub>n</sub> min. | 4.0 x I <sub>n</sub> max. | 10.0 x I <sub>n</sub> min. | 10.0 x I <sub>n</sub> 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                     |

## Time-Current-Curves



## All Variants

| Rated Current [A] | Rated Voltage [VAC] | Rated Voltage [VDC] | 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> Intyp. [A <sup>2</sup> 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 |


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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

| Rated Current [A]                                                                                | Rated Voltage [VAC] | Rated Voltage [VDC]                                                               | 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 Intyp. [A <sup>2</sup> s] |  | Order Number |
|--------------------------------------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------|-------------------|-------------------------------------------|-------------------------------------------|------------------------------------------------|------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------------------------------------|--------------|
| 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 |                     |                                                                                   |                   |                                           |                                           |                                                |                                                |                                                         |                                                                                     |              |
| <hr/>                                                                                            |                     |                                                                                   |                   |                                           |                                           |                                                |                                                |                                                         |                                                                                     |              |
| <b>Packaging Unit</b>                                                                            |                     | .xx = .11 Plastic Bag (100 pcs.)<br>.xx = .22 Blister Tape 33 cm Reel (1000 pcs.) |                   |                                           |                                           |                                                |                                                |                                                         |                                                                                     |              |