

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 PCBs

### References

[Packaging Details](#)

### Weblinks

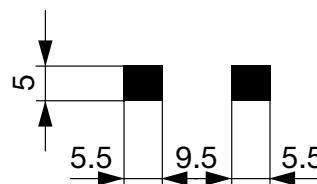
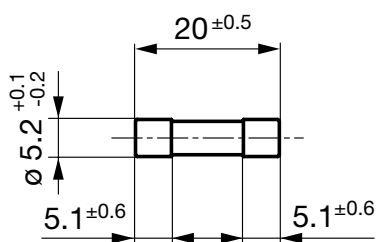
[pdf-datasheet](#), [html-datasheet](#), [General Product Information](#), [Packaging details](#), [Approvals](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [REACH](#), [Distributor-Stock-Check](#), [Detailed request for product](#)

### 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                         |
| Resistance to Vibration      | acc. to IEC 60068-2-6, test Fc                                          |
| Load Humidity Test           | MIL-STD-202, Method 103B<br>0.1 x In @ 0.85 r.H. @ 85 °C                |
| Moisture Resistance Test     | MIL-STD-202, Method 106E<br>(50 cycles in a temp./mister chamber)       |
| Terminal Strength            | MIL-STD-202, Method 211A<br>(Deflection of board 1 mm for 1 minute)     |
| Thermal Shock                | MIL-STD-202, Method 107D<br>(200 air-to-air cycles from -55 to +125 °C) |
| Case Resistance              | acc. to EIA/IS-722, Test 4.7<br>>100 MΩ (between leads and body)        |
| Resistance to Solvents       | MIL-STD-202, Method 215A                                                |

Dimension  20 mm

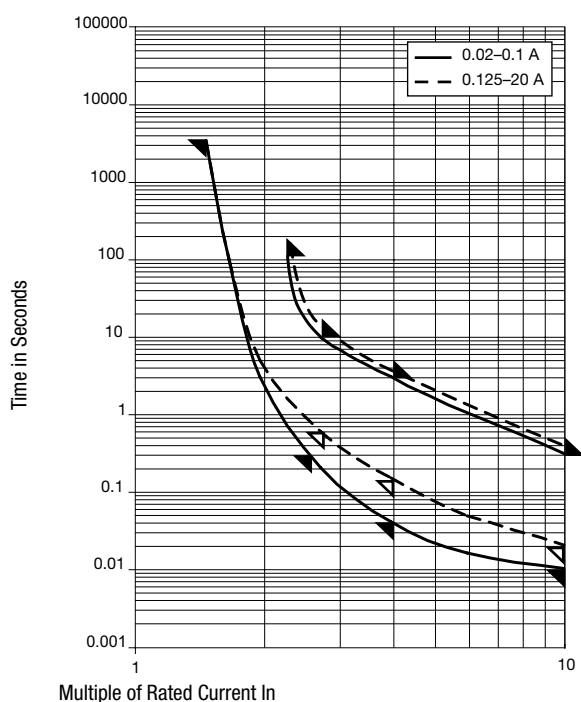


Soldering pads

## 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. |
|---------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|-------------------|
| 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 Intyp. [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 |

| 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 Intyp. [A <sup>2</sup> s] |  | Order Number |
|-------------------|---------------------|-------------------|-------------------------------------------|-------------------------------------------|------------------------------------------------|------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------------------------------------|--------------|
| 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 |
| 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                 | 3)                | -                                         | 60                                        | -                                              | 3300                                           | 1638                                                    | ● ●                                                                                 | 0034.5629.11 |
| 16                | 250                 | 3)                | -                                         | 60                                        | -                                              | 3300                                           | 1638                                                    | ● ●                                                                                 | 0034.5629.22 |
| 20                | 250                 | 3)                | -                                         | 60                                        | -                                              | 4200                                           | 3057                                                    | ● ●                                                                                 | 0034.5630.11 |
| 20                | 250                 | 3)                | -                                         | 60                                        | -                                              | 4200                                           | 3057                                                    | ● ●                                                                                 | 0034.5630.22 |

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- 1) 35 A @ 250 VAC
- 2) 10 In @ 250 VAC
- 3) 125 A @ 250 VAC

#### Packaging Unit

.xx = .11  
.xx = .22

Plastic Bag (100 pcs.)  
Blister Tape 33 cm Reel (1000 pcs.)