

Surface Mount Fuse, 3.2 x 1.6 mm, Super-Quick-Acting FF, 63 VDC / 125 VAC, low impedance



Exemplary part photo depending on part no.

UL 248-14 · 125 VAC · 63 VDC · Super-Quick-Acting FF

Approvals and Compliances

Description

- Complements USF 1206 with lower current ratings
- Impermeable to potting compound

Unique Selling Proposition

- Lowest voltage drop
- Very fast, precise opening

Applications

- Smart meters
- Battery protection
- Sensors
- Mobile devices
- Semiconductor protection

References

[Packaging Details](#)

Weblinks

[pdf datasheet](#), [html-datasheet](#), [General Product Information](#), [Packaging details](#), [Distributor-Stock-Check](#), [Detailed request for product](#), [Microsite](#)

Technical Data

| | |
|------------------------------|-------------------------------|
| Rated Voltage | 125VAC, 63VDC |
| Rated current | 0.05 - 0.25 A |
| Breaking Capacity | 100A |
| Characteristic | Super-Quick-Acting FF |
| Mounting | PCB,SMT |
| Admissible Ambient Air Temp. | -55 °C to 90 °C |
| Climatic Category | 55/090/21 acc. to IEC 60068-1 |
| Material: Housing | Epoxyd Glass, UL 94V-0 |
| Material: Terminals | Gold-Plated Copper Alloy |
| Unit Weight | 0.0133 g |
| Storage Conditions | 0 °C to 60 °C, max. 70% r.h. |
| Product Marking | Letter (see variants) |

| | |
|------------------------------|--|
| Soldering Methods | Reflow Soldering Profile |
| Solderability | 245 °C / 3sec acc. to IEC 60068-2-58, Test Td |
| Resistance to Soldering Heat | 260 +0/-5 °C / 30sec acc. to IPC/JEDEC J-STD-020D, Level 1 |
| Moisture Resistance Test | MIL-STD-202C, Method 103 B (Level 1) IPC/JEDEC-J-STD-20C (85°C@85%RH@240h) |
| Terminal Strength | MIL-STD-202, Method 211A (Deflection of board 1 mm for 1 minute) |
| Thermal Shock | IEC 60068-2-14, CECC 4200 (5 Cycles 40°C - 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 (EIA-722, 4.11) |

Approvals and Compliances

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in [Details about Approvals](#)

Approvals



The approval mark is used by the testing authorities to certify compliance with the safety requirements placed on electronic products.

Approval Reference Type: USFF 1206

| Approval Logo | Certificates | Certification Body | Description |
|---------------|------------------------------|--------------------|------------------------|
| | UL Approvals | UL | UL File Number: E41599 |

Product standards

Product standards that are referenced

| Organization | Design | Standard | Description |
|--|-----------------------|--------------------|---|
|  | Designed according to | UL 248-14 | Low voltage fuses - Part 14: Additional fuses |
|  | Designed according to | CSA22.2 No. 248.14 | Low-Voltage Fuses - Part 14: Supplemental Fuses |






Application standards

Application standards where the product can be used


| Organization | Design | Standard | Description |
|--|--------------------------------|--------------|---|
|  | Designed for applications acc. | IEC/UL 60950 | IEC 60950-1 includes the basic requirements for the safety of information technology equipment. |

Compliances

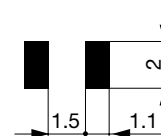
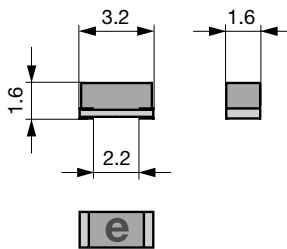
The product complies with following Guide Lines

| Identification | Details | Initiator | Description |
|---|--|-------------|---|
|  | CE declaration of conformity | SCHURTER AG | The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008. |
|  | RoHS | SCHURTER AG | EU Directive RoHS 2011/65/EU |
|  | China RoHS | SCHURTER AG | The law SJ / T 11363-2006 (China RoHS) has been in force since 1 March 2007. It is similar to the EU directive RoHS. |
|  | Halogen Free | SCHURTER AG | SCHURTER strives to offer our customers halogen free products. |
|  | REACH | SCHURTER AG | On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force. |

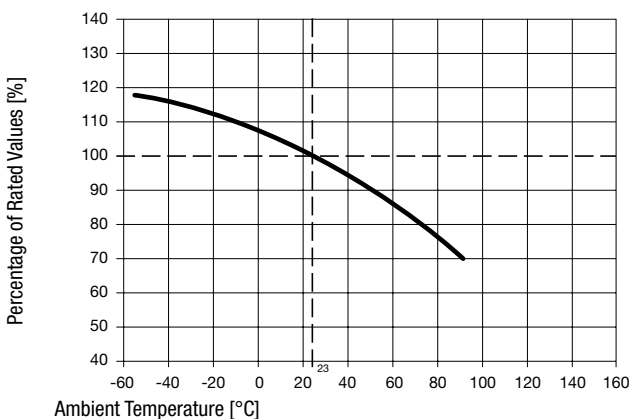
Dimension [mm]

 3.2 mm

Reflow soldering pads



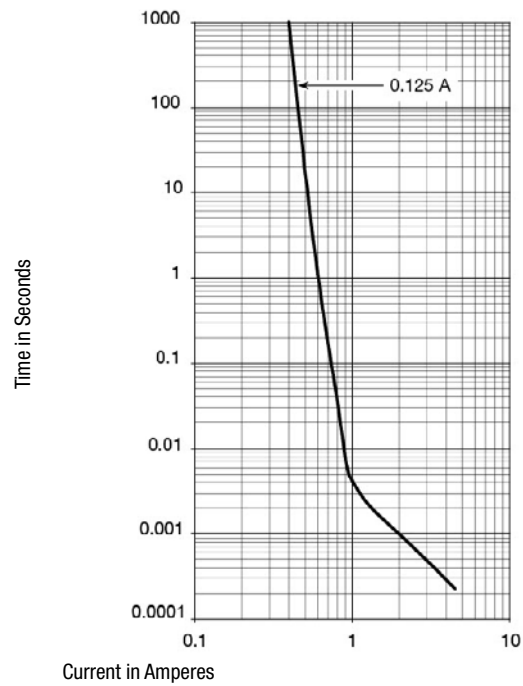
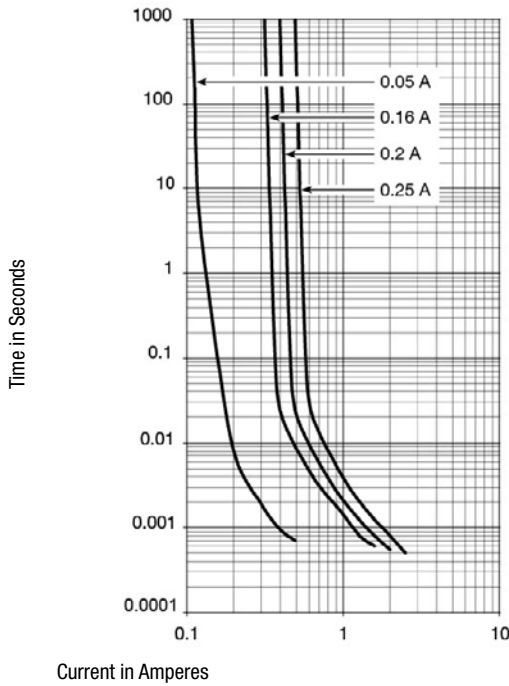
Derating Curves



Pre-Arcing Time

| Rated Current In | 1.0 x In min. | 2.5 x In max. | 10.0 x In min. | 10.0 x In max. |
|------------------|---------------|---------------|----------------|----------------|
| 0.05 A | 4 h | 5 s | 0.1 ms | 1 ms |
| 0.125 A | 4 h | 5 s | 0.1 ms | 3 ms |
| 0.16 A - 0.25 A | 4 h | 5 s | 0.1 ms | 1 ms |

Time-Current-Curves



All Variants

| Rated Current [A] | Rated Voltage [VAC] | Rated Voltage [VDC] | Marking | Breaking Capacity | Voltage Drop 1.0 In typ. [mV] | Cold Resistance typ. [mΩ] | Melting I ² t 8.0 In typ. [A ² s] | Order Number |
|-------------------|---------------------|---------------------|---------|-------------------|-------------------------------|---------------------------|---|----------------|
| 0.05 | 125 | 63 | e | 1) | 430 | 8350 | 0.0002 | ● 3413.0002.11 |
| 0.05 | 125 | 63 | e | 1) | 430 | 8350 | 0.0002 | ● 3413.0002.22 |
| 0.05 | 125 | 63 | e | 1) | 430 | 8350 | 0.0002 | ● 3413.0002.24 |
| 0.05 | 125 | 63 | e | 1) | 430 | 8350 | 0.0002 | ● 3413.0002.26 |
| 0.125 | 125 | 63 | o | 1) | 260 | 2000 | 0.003 | ● 3413.0006.11 |
| 0.125 | 125 | 63 | o | 1) | 260 | 2000 | 0.003 | ● 3413.0006.22 |
| 0.125 | 125 | 63 | o | 1) | 260 | 2000 | 0.003 | ● 3413.0006.24 |
| 0.125 | 125 | 63 | o | 1) | 260 | 2000 | 0.003 | ● 3413.0006.26 |
| 0.16 | 125 | 63 | s | 1) | 95 | 510 | 0.0015 | ● 3413.0008.11 |
| 0.16 | 125 | 63 | s | 1) | 95 | 510 | 0.0015 | ● 3413.0008.22 |
| 0.16 | 125 | 63 | s | 1) | 95 | 510 | 0.0015 | ● 3413.0008.24 |
| 0.16 | 125 | 63 | s | 1) | 95 | 510 | 0.0015 | ● 3413.0008.26 |
| 0.2 | 125 | 63 | u | 1) | 87 | 365 | 0.0029 | ● 3413.0009.11 |
| 0.2 | 125 | 63 | u | 1) | 87 | 365 | 0.0029 | ● 3413.0009.22 |
| 0.2 | 125 | 63 | u | 1) | 87 | 365 | 0.0029 | ● 3413.0009.24 |
| 0.2 | 125 | 63 | u | 1) | 87 | 365 | 0.0029 | ● 3413.0009.26 |
| 0.25 | 125 | 63 | w | 1) | 75 | 255 | 0.0032 | ● 3413.0010.11 |
| 0.25 | 125 | 63 | w | 1) | 75 | 255 | 0.0032 | ● 3413.0010.22 |
| 0.25 | 125 | 63 | w | 1) | 75 | 255 | 0.0032 | ● 3413.0010.24 |
| 0.25 | 125 | 63 | w | 1) | 75 | 255 | 0.0032 | ● 3413.0010.26 |

| Rated Current [A] | Rated Voltage [VAC] | Rated Voltage [VDC] | Marking | Breaking Capacity | Voltage Drop 1.0 In typ. [mV] | Cold Resistance typ. [mΩ] | Melting I ² t 8.0 In typ. [A ² s] | Order Number |
|-------------------|---------------------|---------------------|---------|-------------------|-------------------------------|---------------------------|---|--------------|
|-------------------|---------------------|---------------------|---------|-------------------|-------------------------------|---------------------------|---|--------------|

Most Popular:

Availability for all products can be searched real-time: <https://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER>

1) 10 A @ 125 VAC, 100 A @ 32 VAC, 100 A @ 63 VDC

| Packaging Unit | |
|----------------|---|
| .xx = .11 | Blister Tape of 100 pcs. in Plastic Bag |
| .xx = .22 | Blister Tape 18 cm Reel (1000 pcs.) |
| .xx = .24 | Blister Tape 25.4 cm Reel (5000 pcs.) |
| .xx = .26 | Blister Tape 33 cm Reel (10000 pcs.) |