

















| Style | Surface Mount Fuse | Surface Mount Fuse | Surface Mount Fuse | Subminiature Fuse |
|-------------------|---|---|--|---|
| Dimensions | 10.1 x 3.22 mm | 7.4 x 3.1 mm | 11 x 4.6 mm | 6.4 x 6.4 mm |
| Product picture |  | | | |
| Type | TF 600 | OSU 125 | OSU 250 | MSU 125 |
| Rated Voltage | 600 VAC | 125 VAC/DC | 250 VAC/DC | 125 VAC/DC |
| Rated Current | 0.5 - 2 A | 0.25 - 3.15 A | 0.25 - 3.15 A | 0.25 - 3.15 A |
| Breaking Capacity | | | | |
| Comment | GR-1089-CORE and UL 60950 | | | |
| Characteristic | Time-Lag T | Quick-Acting F | Quick-Acting F | Quick-Acting F |
| Approvals |  CCC |  CCC |    CCC |  CCC |
| Catalogue page | xxx | xxx | xxx | see WEB |

| Style | Subminiature Fuse | Miniature Fuse | Miniature Fuse |
|-------------------|---|---|--|
| Dimensions | 8.5 x 8.5 mm | 5 x 20 mm | 5 x 20 mm |
| Product picture |  | | |
| Type | MSU 250 | FSU 5x20 | SSU 5x20 |
| Rated Voltage | 250 VAC/DC | 250 VAC | 250 VAC |
| Rated Current | 0.25 - 3.15 A | 0.25 - 3.15 A | 0.25 - 3.15 A |
| Breaking Capacity | | | |
| Comment | | | |
| Characteristic | Time-Lag T | Time-Lag T | Time-Lag T |
| Approvals |    |   |    |
| Catalogue page | xxx | see WEB | see WEB |

MSU 250



IEC 60127-3 · 250 VAC/DC · Time-Lag T



Standards

- IEC 60127-3/4
- UL 248-14
- CSA C22.2 no. 248.14
- GR-1089-CORE
- UL 60950
- ITU-T K.20 and K.21
- TIA-968-A

Applications

- xDSL and ADSL linecards and modems

Approvals

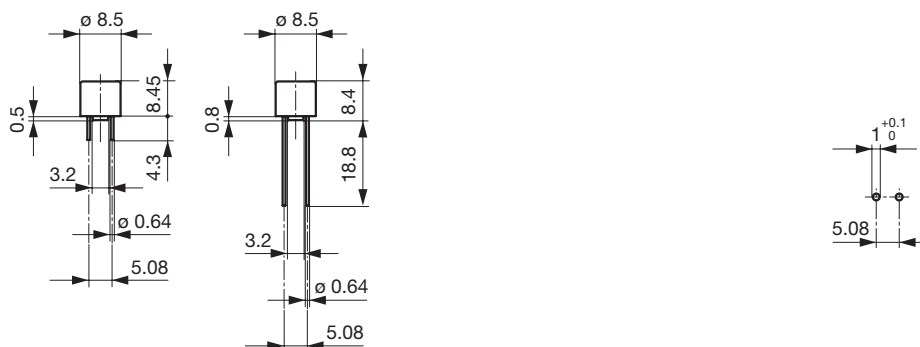
- VDE License Number: 40013529
- UL File Number: E41599

Technical Data

| | |
|------------------------------|---|
| Rated Voltage | 250 VAC/DC |
| Rated Current | 0.25 - 3.15 A |
| Characteristic | Time-Lag T |
| Mounting | PCB,THT |
| Admissible Ambient Air Temp. | -40 °C to 85 °C |
| Climatic Category | 40/085/21 acc. to IEC 60068-1 |
| Material: Housing | Thermoplastic, UL 94V-0 |
| Material: Terminals | Tin-Plated Copper |
| Unit Weight | 0.5 g |
| Stock Conditions | 0 °C to 60 °C, max. 70% r.h. |
| Product Marking | □ Type, Current Rating, Voltage Rating, Characteristic, Approvals |

| | |
|------------------------------|---|
| Soldering Methods | Wave, Iron |
| Solderability | 235 °C / 2 sec acc. to IEC 60068-2-20, Test Ta, method 1 |
| Resistance to Soldering Heat | 260 °C / 5 sec acc. to IEC 60068-2-20, Test Tb, method 1A |
| Current Carrying Capacity | acc. to EIA/IS-722, Test 4.3.3 |
| 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) |
| Case Resistance | acc. to EIA/IS-722, Test 4.7 >100 MΩ (between leads and body) |
| Mechanical Shock | MIL-STD-202, Method 213B (Shock 50gn, half sine wave, 11 ms) |
| Vibration, High Frequency | MIL-STD-202, Method 204D (Shock 20 gn, 20 min, 10-2 kHz, 12 cyc.) |
| Resistance to Solvents | MIL-STD-202, Method 215A |
| Flammability | min. UL 94V-1 (acc. to EIA/IS-722, Test 4.12) |

Dimensions

Length  8.5 mm

Drilling Diagram

MSU 250**Variants**

S = Short Terminals
 L = Long Terminals
 T = Taped and Reeled

| Order Number | S | L | T | Rated Current [A] | Rated Voltage [V] | Voltage Drop 1.0 In typ [mV] | Power Dissipation 1.5 In typ [mW] | Melting Pt 10.0 In typ [A ² s] | Telcordia Surge [A] | UL60950 | ITU - Lightning Surge [A] | ITU - Power Induc- | ITU - Power Contact |
|--------------|---|---|---|-------------------|-------------------|------------------------------|-----------------------------------|---|---------------------|---------|---------------------------|--------------------|---------------------|
| 2040.0609 | ● | | | 0.25 | 250 | 120 | 80 | 0.6 | > 14.0 | | 25.3 | ● | 35.0 |
| 2040.0610 | ● | | | 0.315 | 250 | 120 | 100 | 0.8 | > 14.0 | | 29.2 | ● | 35.0 |
| 2040.0611 | ● | | | 0.4 | 250 | 110 | 100 | 1.1 | > 14.0 | | 39.5 | ● | 35.0 |
| 2040.0612 | ● | | | 0.5 | 250 | 100 | 100 | 2.5 | > 14.0 | | 57 | ● | 35.0 |
| 2040.0613 | ● | | | 0.63 | 250 | 90 | 100 | 4 | > 14.0 | | 67 | ● | 35.0 |
| 2040.0614 | ● | | | 0.8 | 250 | 80 | 200 | 8 | > 14.0 | ● | 67 | ● | 35.0 |
| 2040.0615 | ● | | | 1 | 250 | 70 | 200 | 12 | > 14.0 | ● | 67 | ● | 35.0 |
| 2040.0616 | ● | | | 1.25 | 250 | 70 | 300 | 15 | > 14.0 | ● | 67 | ● | 35.0 |
| 2040.0617 | ● | | | 1.6 | 250 | 60 | 300 | 30 | > 14.0 | ● | 67 | ● | 50.0 |
| 2040.0618 | ● | | | 2 | 250 | 60 | 300 | 34 | > 14.0 | ● | 67 | ● | 50.0 |
| 2040.0619 | ● | | | 2.5 | 250 | 50 | 400 | 55 | > 14.0 | ● | 67 | ● | 50.0 |
| 2040.0620 | ● | | | 3.15 | 250 | 50 | 500 | 76 | > 14.0 | ● | 67 | ● | 50.0 |
| 2040.0709 | ● | | | 0.25 | 250 | 120 | 80 | 0.6 | > 14.0 | | 25.3 | ● | 35.0 |
| 2040.0710 | ● | | | 0.315 | 250 | 120 | 100 | 0.8 | > 14.0 | | 29.2 | ● | 35.0 |
| 2040.0711 | ● | | | 0.4 | 250 | 110 | 100 | 1.1 | > 14.0 | | 39.5 | ● | 35.0 |
| 2040.0712 | ● | | | 0.5 | 250 | 100 | 100 | 2.5 | > 14.0 | | 57 | ● | 35.0 |
| 2040.0713 | ● | | | 0.63 | 250 | 90 | 100 | 4 | > 14.0 | | 67 | ● | 35.0 |
| 2040.0714 | ● | | | 0.8 | 250 | 80 | 200 | 8 | > 14.0 | ● | 67 | ● | 35.0 |
| 2040.0715 | ● | | | 1 | 250 | 70 | 200 | 12 | > 14.0 | ● | 67 | ● | 35.0 |
| 2040.0716 | ● | | | 1.25 | 250 | 70 | 300 | 15 | > 14.0 | ● | 67 | ● | 35.0 |
| 2040.0717 | ● | | | 1.6 | 250 | 60 | 300 | 30 | > 14.0 | ● | 67 | ● | 50.0 |
| 2040.0718 | ● | | | 2 | 250 | 60 | 300 | 34 | > 14.0 | ● | 67 | ● | 50.0 |
| 2040.0719 | ● | | | 2.5 | 250 | 50 | 400 | 55 | > 14.0 | ● | 67 | ● | 50.0 |
| 2040.0720 | ● | | | 3.15 | 250 | 50 | 500 | 76 | > 14.0 | ● | 67 | ● | 50.0 |
| 2040.0809 | ● | | | 0.25 | 250 | 120 | 80 | 0.6 | > 14.0 | | 25.3 | ● | 35.0 |
| 2040.0810 | ● | | | 0.315 | 250 | 120 | 100 | 0.8 | > 14.0 | | 29.2 | ● | 35.0 |
| 2040.0811 | ● | | | 0.4 | 250 | 110 | 100 | 1.1 | > 14.0 | | 39.5 | ● | 35.0 |
| 2040.0812 | ● | | | 0.5 | 250 | 100 | 100 | 2.5 | > 14.0 | | 57 | ● | 35.0 |
| 2040.0813 | ● | | | 0.63 | 250 | 90 | 100 | 4 | > 14.0 | | 67 | ● | 35.0 |
| 2040.0814 | ● | | | 0.8 | 250 | 80 | 200 | 8 | > 14.0 | ● | 67 | ● | 35.0 |
| 2040.0815 | ● | | | 1 | 250 | 70 | 200 | 12 | > 14.0 | ● | 67 | ● | 35.0 |
| 2040.0816 | ● | | | 1.25 | 250 | 70 | 300 | 15 | > 14.0 | ● | 67 | ● | 35.0 |
| 2040.0817 | ● | | | 1.6 | 250 | 60 | 300 | 30 | > 14.0 | ● | 67 | ● | 50.0 |
| 2040.0819 | ● | | | 2 | 250 | 60 | 300 | 34 | > 14.0 | ● | 67 | ● | 50.0 |
| 2040.0819 | ● | | | 2.5 | 250 | 50 | 400 | 55 | > 14.0 | ● | 67 | ● | 50.0 |
| 2040.0820 | ● | | | 3.15 | 250 | 50 | 500 | 76 | > 14.0 | ● | 67 | ● | 50.0 |

Packaging Unit

S + L = Plastic Bag (100 pcs.)
 T = Taped 36 cm Reel (750 pcs.)