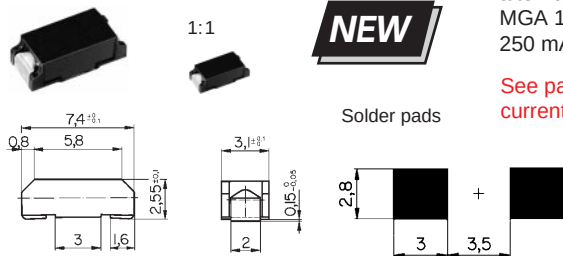


# Surge Tolerant Surface Mount Fuses

## OSU 125 V fuses for surface mounting

can be soldered directly onto printed circuit board or inserted into surface mount fuseholder

especially for telecom applications



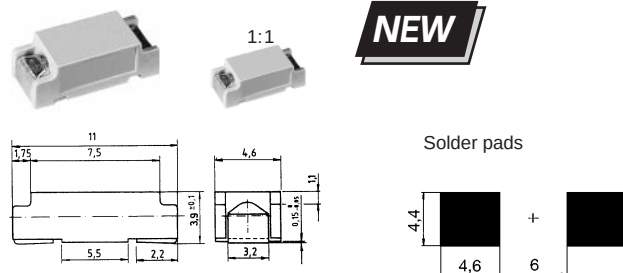
See page 127 for alternative series MGA 125V, size 1206, 250 mA version.

See page 167 for time current characteristics

## OSU 250 V fuses for surface mounting

can be soldered directly onto printed circuit board or inserted into surface mount fuseholder

especially for telecom applications



See page 167 for time current characteristics

### 1. Technical data

| Series    | Pre-arcing time/current characteristic (at T <sub>a</sub> 23 °C) |                            |                               |                            |                            |                                  | Breaking capacity                                         | Standards                                            |
|-----------|------------------------------------------------------------------|----------------------------|-------------------------------|----------------------------|----------------------------|----------------------------------|-----------------------------------------------------------|------------------------------------------------------|
|           | Rated current I <sub>n</sub>                                     | 1 · I <sub>n</sub><br>min. | 1,25 · I <sub>n</sub><br>min. | 2 · I <sub>n</sub><br>max. | 4 · I <sub>n</sub><br>max. | 10 · I <sub>n</sub><br>min. max. |                                                           |                                                      |
| OSU 125 V | 250 mA–3,15 A                                                    | 4 h                        | –                             | 1 s                        | 10 ms                      | –                                | AC 300 A / 125 V<br>p. f. 1<br>DC 400 A / 125 V           | UL 248-14<br>CSA C.22.2<br>No. 248.14                |
| OSU 250 V | 250 mA–3,15 A                                                    | –                          | 1 h                           | IEC/UL<br>120 s            | CSA<br>60 s                | 1 ms 10 ms                       | IEC: L<br>AC 100 A / 250 V<br>p. f. 1<br>DC 100 A / 250 V | IEC 127-4/2<br>UL 248-14<br>CSA C.22.2<br>No. 248.14 |

### 2. Order No.

| OSU 125 V    |                                                              |                                          |                                                    | ITU-T K.20                                                     |                                                    |                                                           | UL 1459/1950                                     | GR 1089                                              |
|--------------|--------------------------------------------------------------|------------------------------------------|----------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------|------------------------------------------------------|
| Order No.    | Rated current I <sub>n</sub><br>Rated voltage U <sub>n</sub> | Voltage drop at I <sub>n</sub> , typ. mV | Pre-arcing I <sup>2</sup> t, typ. A <sup>2</sup> s | Fig. 1 Lightning Surge 10x1kV/10/700 μs I <sub>puls</sub> max. | Fig. 2 Power Induction AC 300 V / 0,5 A 5 x 200 ms | Fig. 3 Power Contact AC 250 V 15 min I <sub>SC</sub> max. | Fig. 4 AC 600 V 40A / 1,5s 7A / 5s 2,2A / 30 min | Fig. 5 1000 V 50 x 10/1000 μs I <sub>puls</sub> max. |
| 2060.0006.XX | 250 mA / 125 V                                               | 990                                      | 0,0058                                             | 2,5 A                                                          |                                                    | 50 A                                                      |                                                  | < 1,5 A                                              |
| 2060.0043.XX | 350 mA / 125 V                                               | 990                                      | 0,0076                                             | 4 A                                                            |                                                    | 25 A                                                      |                                                  | < 1,5 A                                              |
| 2060.0044.XX | 375 mA / 125 V                                               | 990                                      | 0,0130                                             | 4,6 A                                                          | •                                                  | 25 A                                                      |                                                  | < 1,5 A                                              |
| 2060.0007.XX | 400 mA / 125 V                                               | 960                                      | 0,016                                              | 5,8 A                                                          | •                                                  | 25 A                                                      |                                                  | < 1,5 A                                              |
| 2060.0045.XX | 500 mA / 125 V                                               | 300                                      | 0,010                                              | 7,7 A                                                          | •                                                  | 25 A                                                      |                                                  | 2,5 A                                                |
| 2060.0008.XX | 630 mA / 125 V                                               | 290                                      | 0,020                                              | 10 A                                                           | •                                                  | 25 A                                                      |                                                  | 4,6 A                                                |
| 2060.0046.XX | 750 mA / 125 V                                               | 260                                      | 0,031                                              | 13 A                                                           | •                                                  | 25 A                                                      |                                                  | 7 A                                                  |
| 2060.0009.XX | 1 A / 125 V                                                  | 220                                      | 0,086                                              | 16 A                                                           | •                                                  | 25 A                                                      |                                                  | 9,3 A                                                |
| 2060.0010.XX | 1,25 A / 125 V                                               | 220                                      | 0,14                                               | 25 A                                                           | •                                                  | 25 A                                                      |                                                  | 14 A <sup>(5)</sup>                                  |
| 2060.0047.XX | 1,5 A / 125 V                                                | 200                                      | 0,24                                               | 30 A                                                           | •                                                  | 8,3 A                                                     |                                                  | 14 A <sup>(5)</sup>                                  |
| 2060.0011.XX | 1,6 A / 125 V                                                | 200                                      | 0,27                                               | 33 A                                                           | •                                                  | 12,5 A                                                    |                                                  | 14 A <sup>(5)</sup>                                  |
| 2060.0012.XX | 2 A / 125 V                                                  | 200                                      | 0,44                                               | 45 A                                                           | •                                                  | 8,3 A                                                     |                                                  | 14 A <sup>(5)</sup>                                  |
| 2060.0013.XX | 2,5 A / 125 V                                                | 190                                      | 0,79                                               | 67 A <sup>(1)</sup>                                            | •                                                  | 8,3 A                                                     |                                                  | 14 A <sup>(5)</sup>                                  |
| 2060.0014.XX | 3 A / 125 V                                                  | 190                                      | 1,1                                                | 67 A <sup>(1)</sup>                                            | •                                                  | 8,3 A                                                     |                                                  | 14 A <sup>(5)</sup>                                  |
| 2060.0048.XX | 3,15 A / 125 V                                               | 190                                      | 1,1                                                | 67 A <sup>(1)</sup>                                            | •                                                  | 8,3 A                                                     |                                                  | 14 A <sup>(5)</sup>                                  |

| OSU 250 V    |                                                              |                                          |                                                    | ITU-T K.20                                                     |                                                    |                                                           | UL 1459/1950                                     | GR 1089                                              |
|--------------|--------------------------------------------------------------|------------------------------------------|----------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------|------------------------------------------------------|
| Order No.    | Rated current I <sub>n</sub><br>Rated voltage U <sub>n</sub> | Voltage drop at I <sub>n</sub> , typ. mV | Pre-arcing I <sup>2</sup> t, typ. A <sup>2</sup> s | Fig. 1 Lightning Surge 10x1kV/10/700 μs I <sub>puls</sub> max. | Fig. 2 Power Induction AC 300 V / 0,5 A 5 x 200 ms | Fig. 3 Power Contact AC 250 V 15 min I <sub>SC</sub> max. | Fig. 4 AC 600 V 40A / 1,5s 7A / 5s 2,2A / 30 min | Fig. 5 1000 V 50 x 10/1000 μs I <sub>puls</sub> max. |
| 2070.0010.XX | 250 mA / 250 V                                               | 435                                      | 0,009                                              | 3,9 A                                                          |                                                    | 100 A                                                     | •                                                | < 1,9 A                                              |
| 2070.0011.XX | 315 mA / 250 V                                               | 395                                      | 0,017                                              | 4,3 A                                                          | •                                                  | 100 A                                                     | •                                                | < 1,9 A                                              |
| 2070.0012.XX | 400 mA / 250 V                                               | 230                                      | 0,02                                               | 5 A                                                            | •                                                  | 100 A                                                     | •                                                | 3,1 A                                                |
| 2070.0013.XX | 500 mA / 250 V                                               | 190                                      | 0,04                                               | 10 A                                                           | •                                                  | 100 A                                                     | •                                                | 5,1 A                                                |
| 2070.0014.XX | 630 mA / 250 V                                               | 170                                      | 0,08                                               | 16 A                                                           | •                                                  | 100 A                                                     |                                                  | 9,2 A                                                |
| 2070.0015.XX | 800 mA / 250 V                                               | 200                                      | 0,13                                               | 22 A                                                           | •                                                  | 100 A                                                     |                                                  | 14 A <sup>(5)</sup>                                  |
| 2070.0016.XX | 1 A / 250 V                                                  | 170                                      | 0,23                                               | 27 A                                                           | •                                                  | 100 A                                                     |                                                  | 14 A <sup>(5)</sup>                                  |
| 2070.0017.XX | 1,25 A / 250 V                                               | 150                                      | 0,47                                               | 43 A                                                           | •                                                  | 100 A                                                     |                                                  | 14 A <sup>(5)</sup>                                  |
| 2070.0018.XX | 1,6 A / 250 V                                                | 150                                      | 0,84                                               | 67 A <sup>(1)</sup>                                            | •                                                  | 100 A                                                     |                                                  | 14 A <sup>(5)</sup>                                  |
| 2070.0019.XX | 2 A / 250 V                                                  | 140                                      | 1,4                                                | 67 A <sup>(1)</sup>                                            | •                                                  | 100 A                                                     |                                                  | 14 A <sup>(5)</sup>                                  |
| 2070.0020.XX | 2,5 A / 250 V                                                | 130                                      | 2,6                                                | 67 A <sup>(1)</sup>                                            | •                                                  | 100 A                                                     |                                                  | 14 A <sup>(5)</sup>                                  |
| 2070.0021.XX | 3,15 A / 250 V                                               | 130                                      | 4,3                                                | 67 A <sup>(1)</sup>                                            | •                                                  | 100 A                                                     |                                                  | 14 A <sup>(5)</sup>                                  |

Explanation for fig. 1–5 and index <sup>(1)</sup> / <sup>(5)</sup>: see page 160/161

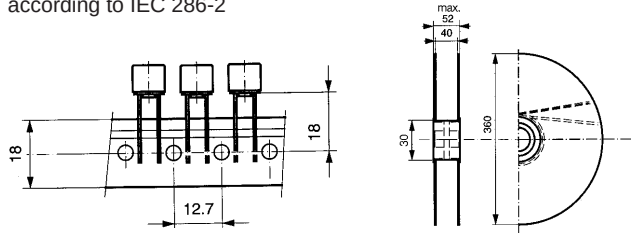
Packaging see page 167

## Packaging Information

### MSU 125 V / MSU 250 V

- Packing style
- Packaged loose
  - Taped and reeled 750 pieces MSU 125 V 1000 pieces

Tape and reel according to IEC 286-2

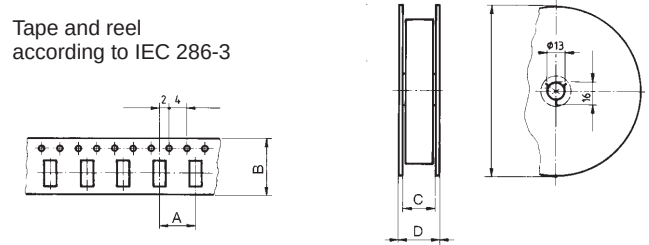


### OSU 125 V / OSU 250 V

| Packaged loose or blistertaped | OSU 125V     | OSU 250V     |
|--------------------------------|--------------|--------------|
| Packaged loose                 | 2060.XXXX.11 | 2070.XXXX.11 |
| Blistertape reeled 750 pieces  | 2060.XXXX.22 |              |
| Blistertape reeled 2000 pieces |              | 2070.XXXX.24 |
| Blistertape reeled 3000 pieces | 2060.XXXX.24 |              |

| Type      | Dimensions in mm |    |          |          |
|-----------|------------------|----|----------|----------|
|           | A                | B  | C (max.) | D (max.) |
| OSU 125 V | 8                | 16 | 18,4     | 22,4     |
| OSU 250 V | 8                | 24 | 26,4     | 30,4     |

Tape and reel according to IEC 286-3



## Time current characteristics

