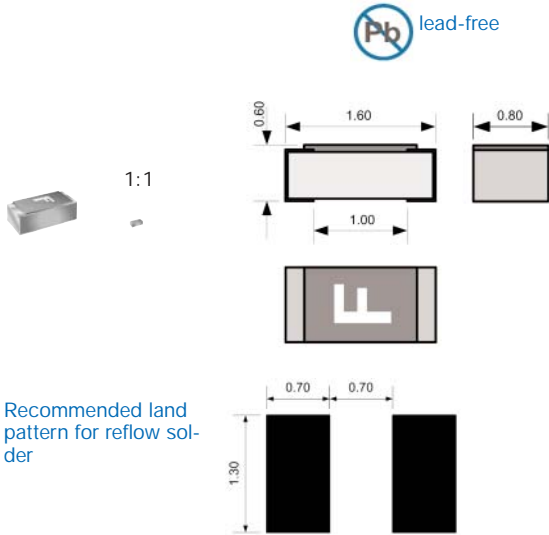
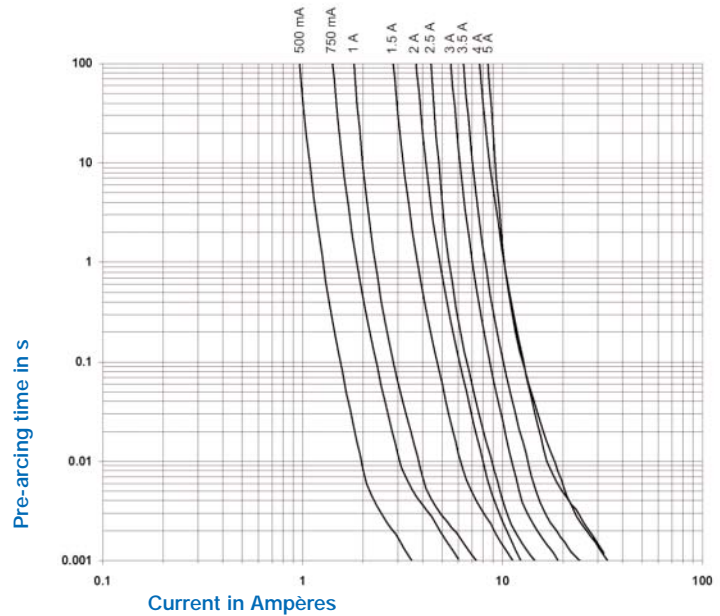


**Surface Mount Fuses**  
**Type USF 0603**  
super-quick-acting FF

directly solderable on printed circuit boards



Typical time/current characteristic curves at 23°C



**Pre-arcing time/current characteristic (at T<sub>a</sub> 23 °C)**

| Rated current I <sub>n</sub> | n · I <sub>n</sub> |                    |
|------------------------------|--------------------|--------------------|
|                              | 1 · I <sub>n</sub> | 2 · I <sub>n</sub> |
| 500 mA – 5 A                 | min.<br>4 h        | max.<br>60 s       |

**Standards**

UL 248-14  
CSA 248-14

**Approvals**



\*Free of CCC (DFC)

| Order No     | Rated current I <sub>n</sub> | Marking | Rated voltage U <sub>n</sub><br><br>VAC / VDC | Breaking capacity                     | Voltage drop at I <sub>n</sub> |         | Cold resistance<br><br>typ. mOhm | Pre-arcing I <sup>2</sup> t at 8xI <sub>n</sub><br><br>typ. A <sup>2</sup> s | Approvals |      |
|--------------|------------------------------|---------|---|---------------------------------------|--------------------------------|---------|----------------------------------|--|-----------|------|
|              |                              |         |   |                                       | typ. mV                        | max. mV |                                  |  | UL        | CCC* |
| 3412.0113.XX | 500 mA                       | F       | 32 / 32                                       | 50 A/32 VAC<br>at power factor > 0.95 | 101                            | 120     | 157                              | 0.02   | •         | •    |
| 3412.0114.XX | 750 mA                       | G       | 32 / 32                                       |                                       | 100                            | 120     | 90                               | 0.04   | •         | •    |
| 3412.0115.XX | 1 A                          | H       | 32 / 32                                       |                                       | 98                             | 120     | 75                               | 0.06   | •         | •    |
| 3412.0117.XX | 1.5 A                        | K       | 32 / 32                                       |                                       | 73                             | 120     | 44                               | 0.14   | •         | •    |
| 3412.0119.XX | 2 A                          | N       | 32 / 32                                       |                                       | 70                             | 120     | 27.5                             | 0.25   | •         | •    |
| 3412.0120.XX | 2.5 A                        | O       | 32 / 32                                       | 50 A/32 VDC                           | 75                             | 120     | 23.5                             | 0.40   | •         | •    |
| 3412.0121.XX | 3 A                          | P       | 32 / 32                                       |                                       | 80                             | 120     | 18.6                             | 0.58   | •         | •    |
| 3412.0122.XX | 3.5 A                        | R       | 32 / 32                                       |                                       | 85                             | 120     | 16                               | 0.80   | •         | •    |
| 3412.0123.XX | 4 A                          | S       | 32 / 32                                       |                                       | 80                             | 120     | 12.5                             | 1.10   | •         | •    |
| 3412.0124.XX | 5 A                          | T       | 32 / 32                                       |                                       | 70                             | 120     | 10                               | 1.50   | •         | •    |

.XX Packaging index

All measurements are carried out on a test board referring to IEC 60127-4 with 5 mm track.

**Technical data and packaging**

**Type USF 0603**

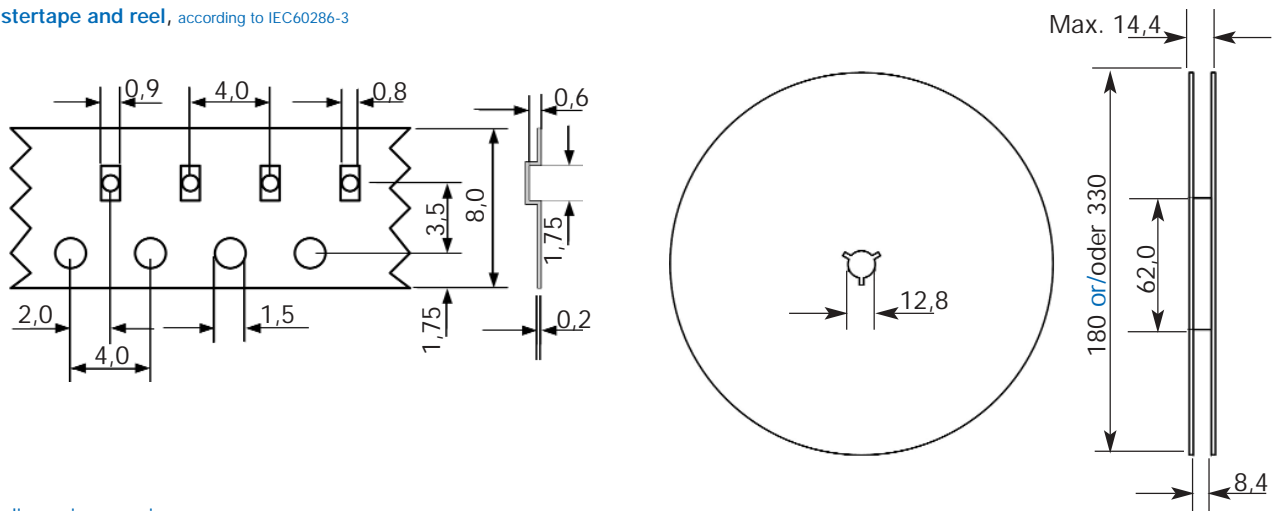
**Additional technical data**

|   |  |
|---|--|
| Ambient temperature max. $T_a$                    | -55 °C to +90 °C   |
| Recommended continuous operating current at 23 °C | $0,7 \cdot I_n$  |
| Climatic category                                 | 55/090/21 according to IEC 60068-1                             |
| Solderability (Reflow- soldering)                 | 235 °C, 2 sec. (215 °C, 3 sec.) according to IEC 60068-2-58    |
| Soldering heat resistance                         | 260 °C, 10 sec., according to IEC 60068-2-58                   |
| Fuse-link temperature rise                        | $\leq 75$ K (UL/CSA) trackwidth: 5 mm according to IEC 60127-4 |
| Storage temperature max.                          | 40 °C at 70% r. H. / r. F.                                     |
| Materials Housing<br>Terminals                    | Glass epoxy, flammability class UL94V-0<br>Cu / Sn             |
| Net weight pieces %                               | 0,12 g   |

**Packaging**

| Tape   | Type USF 0603 |
|--|---------------|
| Taped and reeled 1000 pieces / reel diameter 180 mm  | 3412.XXXX.22  |
| Taped and reeled 5000 pieces / reel diameter 180 mm  | 3412.XXXX.24  |
| Taped and reeled 15000 pieces / reel diameter 330 mm | 3412.XXXX.26  |

**Blistertape and reel**, according to IEC60286-3



All dimensions are in mm