

MINI® Blade Fuses



MINI® Sn (Tin plated)
Blade Fuses

## MINI® Blade Fuses Rated 32V

The MINI® Fuse is the standard for vehicle circuit protection. Its miniature design meets the need for more circuits to be protected while utilizing less space, and its ability to cope with high temperatures in adverse environments makes the MINI® Fuse of recommended choice for protection.

### Specification

| | MINI (Silver Plated) | MINI Sn (Tin Plated) |
|---|---|---|
| Interrupting Rating: | 1000A @ 32 VDC | 1000A @ 32 VDC |
| Voltage Rating: | 32 VDC | 32 VDC |
| *Component Level Temperature Range: | -40°C to +125°C | -40°C to +105°C |
| **System Level Temperature Range: | -40°C to +105°C | -40°C to +85°C |
| *105°C and 85°C are typical system level temperature requirements.* | | |
| Terminals: | Ag plated zinc alloy | Sn plated zinc alloy |
| Housing Material: | PA66 | PA66 |
| Complies with: | SAE J2077, ISO 8820-3, UL 248 Special Purpose Fuses | SAE J2077, ISO 8820-3 not UL recognized |

RoHS

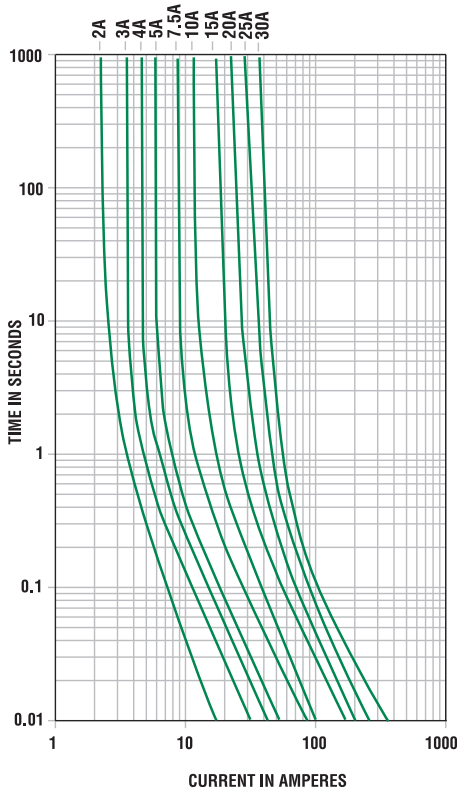
### Ordering Information

| Part Number | Package Size |
|---|---|
| 0297xxx.WXNV | 3000 |
| 0297xxx.U | 500 |
| 0297xxx.H | 100 |
| 0297xxx.L | 50 |
| **MINI® Sn Fuse** | |
| 0297xxx.WXT | 3000 |

### Time-Current Characteristics

| % of Rating | Opening Time Min / Max (s) |
|---|---|
| 110 | 360,000 s / – |
| 135 | 0.75 s / 600 s |
| 200 | 0.15 s / 5 s |
| 350 | 0.080 s / 0.500 s |
| 600 | 0.030 s / 0.100 s |

### Time-Current Characteristic Curves



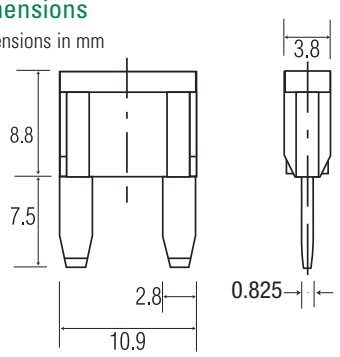

**Component Level Temperature* = the maximum ambient temperature that a single fuse will survive. This does not factor-in the heat from a populated fuse box, but does include the heat from the current load with the proper rerating. ***System Level Temperature* represents the ambient temperature of the fuse box at a location within the vehicle. The temperature within a populated fuse box (in a given location) will be higher. The limiting factor is the plating. Sn-plating's temperature limit is ≈130°C, and Ag-plating allows up to 150°C at the terminal interface.

### Ratings

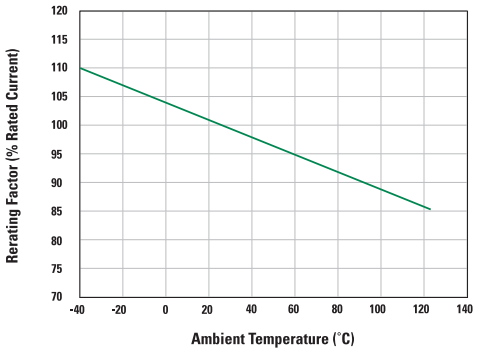
| Part Number | Current Rating (A) | Housing Material Color | Typ. Voltage Drop (mV) | Cold Resistance (mΩ) | I²t (A²s) |
|---|---|---|---|---|---|
| 0297002._ | 2 | | 171 | 55.60 | 2.8 |
| 0297003._ | 3 | | 153 | 33.75 | 9.4 |
| 0297004._ | 4 | | 121 | 23.48 | 17 |
| 0297005._ | 5 | | 129 | 17.75 | 25 |
| 029707.5_ | 7.5 | | 135 | 10.85 | 68 |
| 0297010._ | 10 | | 108 | 7.42 | 93 |
| 0297015._ | 15 | | 98 | 4.58 | 270 |
| 0297020._ | 20 | | 96 | 3.21 | 380 |
| 0297025._ | 25 | | 86 | 2.36 | 625 |
| 0297030._ | 30 | | 87 | 1.85 | 1130 |

### Dimensions

Dimensions in mm




### Temperature Rerating Curve




Littelfuse products are not designed for, and shall not be used for, any purpose (including, without limitation, automotive, military, aerospace, medical, life-saving, life-sustaining or nuclear facility applications, devices intended for surgical implant into the body, or any other application in which the failure or lack of desired operation of the product may result in personal injury, death, or property damage) other than those expressly set forth in applicable Littelfuse product documentation. Warranties granted by Littelfuse shall be deemed void for products used for any purpose not expressly set forth in applicable Littelfuse documentation. Littelfuse shall not be liable for any claims or damages arising out of products used in applications not expressly intended by Littelfuse as set forth in applicable Littelfuse documentation. The sale and use of Littelfuse products is subject to Littelfuse Terms and Conditions of Sale, unless otherwise agreed by Littelfuse.