

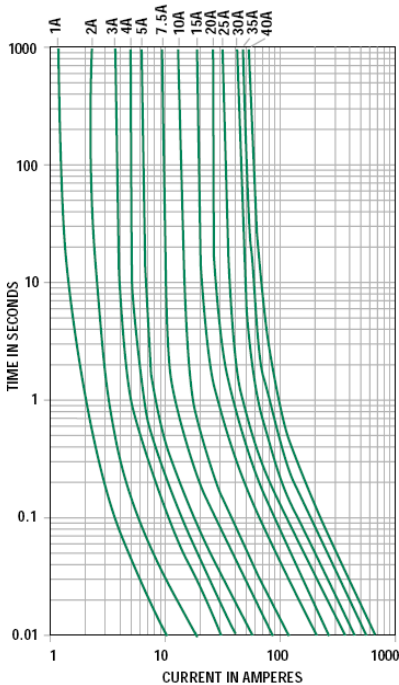


ATOF® Blade Fuses

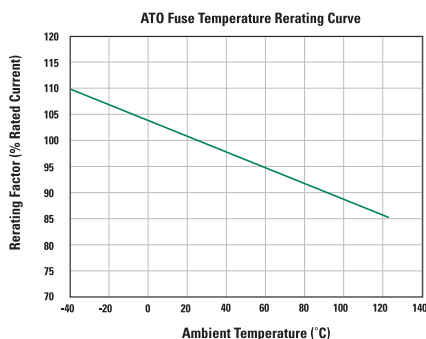


ATO® Ag (Silver plated) Blade Fuses

Time-Current Characteristic Curves



Temperature Derating Curve



ATOF® Blade Fuses Rated 32V

Developed by Littelfuse for the automotive industry, the ATOF® fuse has become the original equipment circuit protection standard for foreign and domestic automobiles and trucks. Readily identifiable and easily replaced, this fuse can be specified for a variety of low voltage electronic applications.

Specification

| | ATOF® (Tin Plated) | ATO Ag (Silver Plated) |
|--|-----------------------|---------------------------|
| Voltage Rating: | 32 VDC | 32 VDC |
| Interrupting Rating: | 1000A @ 32 VDC | 1000A @ 32 VDC |
| *Component Level Temperature Range: | -40°C to +105°C | -40°C to +125°C |
| **System Level Temperature Range: | -40°C to +85°C | -40°C to +105°C |
| <i>105°C and 85°C are typical system level temperature requirements.</i> | | |
| Terminals: | Sn plated zinc alloy | Ag plated zinc alloy |
| Housing Material: | PA66 | PA66 |
| Complies with: | SAE J1284, ISO 8820-3 | SAE J1284, ISO 8820-3 |
| UL Listed: | File AU1410 | File AU1410 |
| CSA Certified: | File No. 29862 | File No. 29862 |



Ordering Information

| Part Number | Package Size |
|---------------------|--------------|
| 0287xxx.PXCN | 2000 |
| 0287xxx.U | 500 |
| 0287xxx.H | 100 |
| 0287xxx.L | 50 |
| ATO® Ag Fuse | |
| 0287xxx.PXS | 2000 |

Time-Current Characteristics

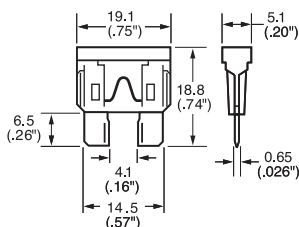
| % of Rating | Current Rating | Opening Time Min / Max (s) |
|-------------|---------------------|-----------------------------------|
| 100 | 35A & 40A | 360,000 s / - |
| 110 | 1A-30A | 360,000 s / - |
| 135 | 1A & 2A 3A-40A | 350 ms / 600 s 0.750 s / 600 s |
| 160 | 1A-40A | 250 ms / 50 s |
| 200 | 1A & 2A 3A-40A | 100 ms / 5.0 s 0.150 s / 5.0 s |
| 350 | 1A & 2A 3A-40A | 20 ms / 500 ms 80 ms / 500 ms |
| 600 | 1A-30A 35A & 40A | - / 100 ms - / 150 ms |

Ratings

| Part Number | Current Rating (A) | Housing Material Color | Typ. Voltage Drop (mV) | Cold Resistance (mΩ) | I ² t (A ² s) |
|-------------|--------------------|------------------------|------------------------|----------------------|-------------------------------------|
| 0287001_ | 1 | Black | 176 | 123 | 0.4 |
| 0287002_ | 2 | Grey | 141 | 53.5 | 1.4 |
| 0287003_ | 3 | Purple | 137 | 31.1 | 7.4 |
| 0287004_ | 4 | Pink | 136 | 22.8 | 14 |
| 0287005_ | 5 | Brown | 128 | 17.85 | 26 |
| 028707.5_ | 7.5 | Dark Brown | 116 | 10.91 | 60 |
| 0287010_ | 10 | Red | 109 | 7.70 | 115 |
| 0287015_ | 15 | Blue | 102 | 4.80 | 340 |
| 0287020_ | 20 | Yellow | 98 | 3.38 | 520 |
| 0287025_ | 25 | Light Yellow | 92 | 2.52 | 1080 |
| 0287030_ | 30 | Green | 84 | 1.97 | 1510 |
| 0287035_ | 35 | Dark Green | 87 | 1.61 | 2280 |
| 0287040_ | 40 | Orange | 96 | 1.44 | 3310 |

Dimensions

Dimensions in mm



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 derating. *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.

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.