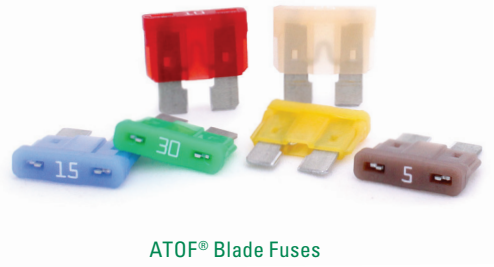
# Blade Fuses

Littelfuse®
Expertise Applied | Answers Delivered




ATOF® Blade Fuses


ATO® Ag (Silver plated)
Blade Fuses

## 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.

### Specifications

| | ATOF® (Tin Plated) | ATO Ag (Silver Plated) |
|---|---|---|
| Voltage Rating: | 32 VDC | 32 VDC |
| Interrupting Rating: | 1000A @ 32 VDC | 1000A @ 32 VDC |
| *Recommended Environmental Temperature: | -40°C to +125°C | -40°C to +125°C |
| Terminals Material: | Tin plated zinc alloy | Silver plated zinc alloy |
| Housing Material: | PA66 (U.L. 94 Flammability rating – V2) | PA66 (U.L. 94 Flammability rating – V2) |
| Net Weight Per Fuse: | 1.4±5% gr | 1.4±5% gr |
| 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 |

RoHS

*Tin plating's temperature limit is ≈130°C, Silver plating allows up to 150°C at the terminal interface.

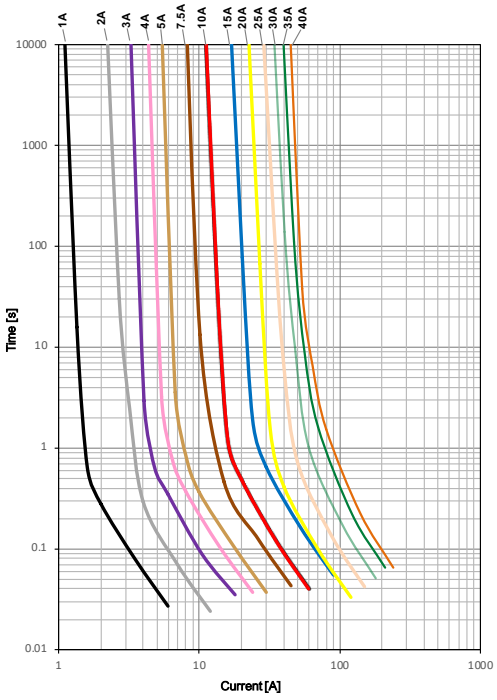
### Ordering Information

| Part Number | Rating | Package Size |
|---|---|---|
| **ATOF® (Tin Plated)** | | |
| 0287xxx.PXCN | 1 - 40 | 2000 |
| 0287xxx.U | 1 - 40 | 500 |
| 0287xxx.H | 1 - 40 | 100 |
| 0287xxx.L | 1 - 40 | 50 |
| **ATO Ag (Silver Plated)** | | |
| 0287xxx.PXS | 1 - 40 | 2000 |

### Time-Current Characteristics

| % of Rating | Current Rating | Opening Time Min / Max (s) |
|---|---|---|
| 100 | 35A & 40A | 360,000 / ∞ |
| 110 | 1A-40A | 360,000 / ∞ |
| 135 | 1A & 2A<br>3A-40A | 0.35 / 600<br>0.750 / 600 |
| 160 | 1A-40A | 0.250 / 50 |
| 200 | 1A & 2A<br>3A-40A | 0.1 / 5<br>0.15 / 5 |
| 350 | 1A & 2A<br>3A-40A | 0.02 / 0.5<br>0.80 / 0.5 |
| 600 | 1A-30A<br>35A & 40A | 0.1 max<br>0.15 max |

### Time-Current Characteristic Curves




### Ratings

| Part Number | Current Rating (A) | Housing Material Color | Test Cable Size (mm²) | Typ. Voltage Drop (mV) | Typ.Cold Resistance (mΩ) | Typ.I²t (A²s) |
|---|---|---|---|---|---|---|
| 0287001._ | 1 | | 0.5 | 176 | 123 | 0.4 |
| 0287002._ | 2 | | 0.5 | 141 | 53.5 | 1.4 |
| 0287003._ | 3 | | 0.5 | 137 | 31.1 | 7.4 |
| 0287004._ | 4 | | 0.5 | 136 | 22.8 | 14 |
| 0287005._ | 5 | | 0.5 | 128 | 17.85 | 26 |
| 028707.5_ | 7.5 | | 0.75 | 116 | 10.91 | 60 |
| 0287010._ | 10 | | 1 | 109 | 7.70 | 115 |
| 0287015._ | 15 | | 1.5 | 102 | 4.80 | 340 |
| 0287020._ | 20 | | 2.5 | 98 | 3.38 | 520 |
| 0287025._ | 25 | | 2.5 | 92 | 2.52 | 1,000 |
| 0287030._ | 30 | | 4 | 84 | 1.97 | 1,500 |
| 0287035._ | 35 | | 6 | 87 | 1.61 | 2,300 |
| 0287040._ | 40 | | 6 | 96 | 1.44 | 3,300 |

The typical I²t is an average value calculated from the breaking capacity tests by using the melting time before the arcing occurs.

REV07272021

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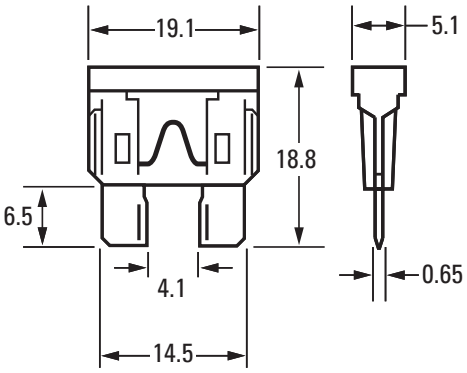
## Dimensions

Dimensions in mm for reference only.
See outline drawing for dimensions and tolerances.

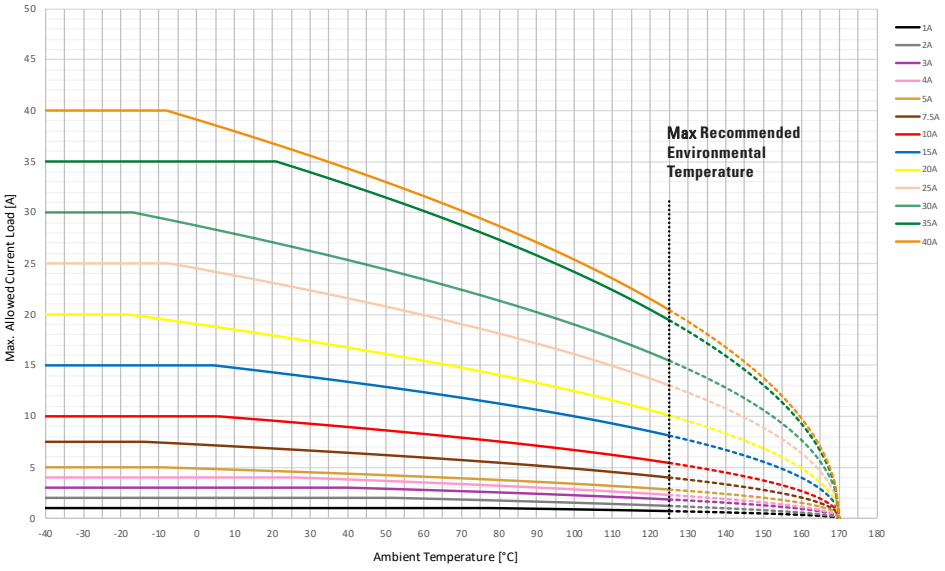



## Temperature Table

| | max. allowed current load [A] at ambient temperature (typical derating) | | | | | | |
|---|---|---|---|---|---|---|---|
| | -40°C | 0°C | 20°C | 65°C | 85°C | 110°C | 125°C |
| **1A** | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **2A** | 2 | 2 | 2 | 2 | 2 | 1 | 1 |
| **3A** | 3 | 3 | 3 | 3 | 2 | 2 | 2 |
| **4A** | 4 | 4 | 4 | 3 | 3 | 3 | 2 |
| **5A** | 5 | 5 | 5 | 4 | 4 | 3 | 3 |
| **7.5A** | 8 | 7 | 7 | 6 | 5 | 5 | 4 |
| **10A** | 10 | 10 | 10 | 8 | 7 | 6 | 5 |
| **15A** | 15 | 15 | 14 | 12 | 11 | 9 | 8 |
| **20A** | 20 | 19 | 18 | 15 | 14 | 12 | 10 |
| **25A** | 25 | 25 | 23 | 19 | 18 | 15 | 13 |
| **30A** | 30 | 29 | 27 | 23 | 21 | 18 | 15 |
| **35A** | 35 | 35 | 35 | 29 | 27 | 22 | 19 |
| **40A** | 40 | 39 | 37 | 31 | 28 | 24 | 20 |

## Typical Derating of Fuse Melting Element

Temperature Security Margin is 20%
Wire Cross Section And Fixture Test Set Up Refer To ISO 8820-3
Please Contact Littelfuse® For Details Regarding Derating Test Set Up




Derating curves may change depending on the final condition of the application (terminals characteristics, wire size etc..).
Please ask Littelfuse® for more information.