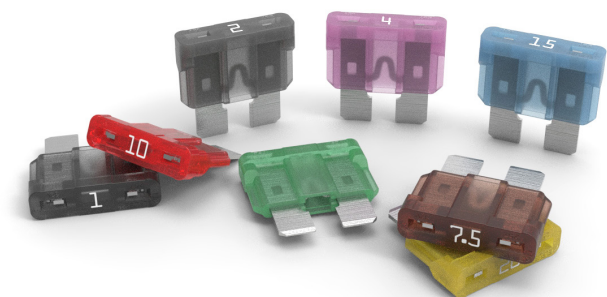


ATOF® Blade Fuses

Rated 32V



ATOF® Shunt

Specifications

| | |
|-----------------------------------------------|--------------------------------------------------------------|
| Voltage Rating: | 32 V dc |
| Interrupting Rating: | 1000 A @ 32 V dc |
| Recommended Environmental Temperature: | -40 °C to +125 °C (ATOF®) -40 °C to +105 °C (ATOF® Shunt) |
| Terminals Material: | Tin- or silver-plated* |
| Housing Material: | PA66 (UL 94 Flammability rating of V-2) |
| Net Weight Per Fuse: | 1.4 g ± 5 % |
| Comply With: | SAE J1284 and ISO 8820-3 |
| UL Listed: | File AU1410 |
| CSA Certified: | File No. 29862 |

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

Description

ATOF® automotive blade fuses were developed to take the place of obsolete ATO Series 257 fuses. Automakers consider ATOF fuses standard equipment for protecting low-voltage circuits.

Applications

- Cars
- Trucks
- SUVs
- Offroad vehicles
- Buses
- Watercraft as approved by Littelfuse®

Features & Benefits

- Color coding indicates amperage rating
- See-through housings make it easier to see when fuses blow
- Checkpoints on top make it possible to measure resistance without removing the fuse
- High-contrast ampere stamps on housings aid identification
- Simple to install and remove
- Shunt version available (Tin plated only)

Ordering Information

| Part Number | Current Rating (A) | Package Size |
|------------------------|--------------------|--------------|
| ATOF® (Tin Plated) | | |
| 0287xxx.PXCN | 1-40 & Shunt | 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 |

ATOF® Blade Fuses

Rated 32V

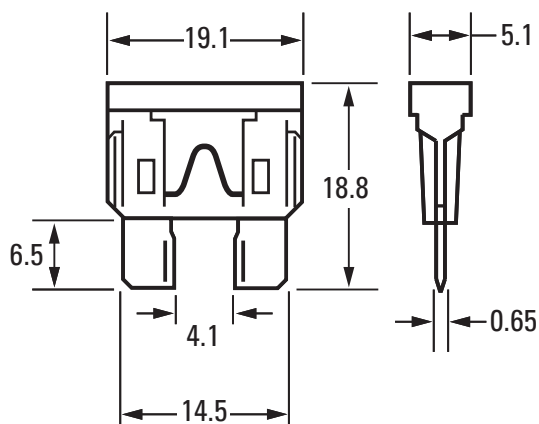
Ratings

| Part Number | Current Rating (A) | Housing Material Color | Test Cable Size (mm ²) | Typ. Voltage Drop (mV) | Typ. Cold Resistance (mΩ) | Typ. I ² t (A ² s) |
|-------------|--------------------|------------------------|------------------------------------|------------------------|---------------------------|------------------------------------------|
| 0287001._ | 1 | Black | 0.35 | 176 | 123 | 0.4 |
| 0287002._ | 2 | Grey | 0.35 | 141 | 53.5 | 1.4 |
| 0287003._ | 3 | Purple | 0.35 | 137 | 31.1 | 7.4 |
| 0287004._ | 4 | Pink | 0.35 | 136 | 22.8 | 14 |
| 0287005._ | 5 | Brown | 0.5 | 128 | 17.85 | 26 |
| 028707.5._ | 7.5 | Dark Brown | 0.75 | 116 | 10.91 | 60 |
| 0287010._ | 10 | Red | 1 | 109 | 7.70 | 115 |
| 0287015._ | 15 | Blue | 1.5 | 102 | 4.80 | 340 |
| 0287020._ | 20 | Yellow | 2.5 | 98 | 3.38 | 520 |
| 0287025._ | 25 | Light Orange | 2.5 | 92 | 2.52 | 1 000 |
| 0287030._ | 30 | Green | 4 | 84 | 1.97 | 1 500 |
| 0287035._ | 35 | Dark Green | 6 | 87 | 1.61 | 2 300 |
| 0287040._ | 40 | Orange | 6 | 96 | 1.44 | 3 300 |
| 0287900._ | SHUNT | White | - | - | - | - |

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

Dimensions

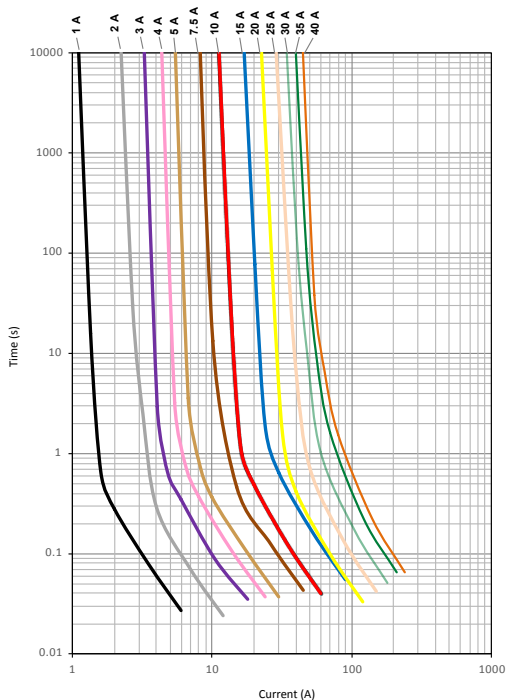
Dimensions in mm for reference only.
See outline drawing for dimensions and tolerances.



ATOF® Blade Fuses

Rated 32V

Time-Current Characteristic Curves

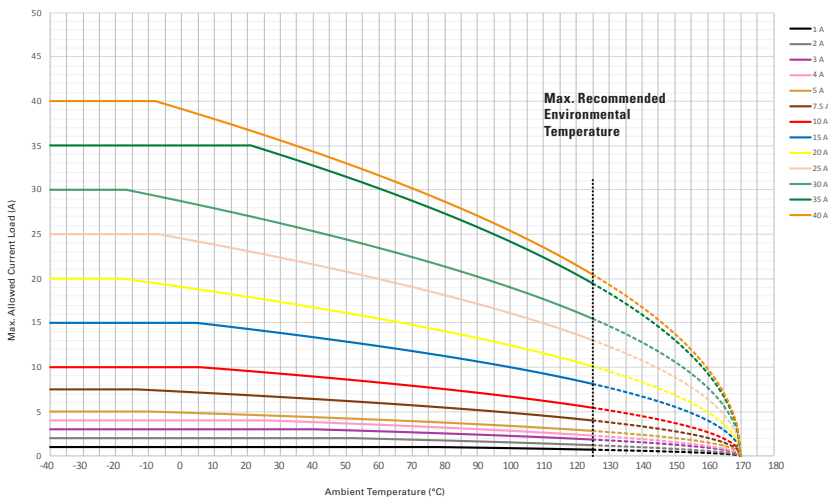


Time-Current Characteristics

| % of Rating | Current Rating (A) | Opening Time Min. / Max. (s) |
|-------------|--------------------|------------------------------|
| 100 | 35-40 | 360,000 / ∞ |
| 110 | 1-30 | 360,000 / ∞ |
| 135 | 1-2 | 0.35 / 600 |
| | 3-40 | 0.750 / 600 |
| 160 | 1-40 | 0.250 / 50 |
| | 3-40 | 0.15 / 5 |
| 200 | 1-2 | 0.1 / 5 |
| | 3-40 | 0.08 / 0.5 |
| 350 | 1-2 | 0.02 / 0.5 |
| | 3-40 | 0.1 max |
| 600 | 1-30 | 0.15 max |
| | 35-40 | 0.15 max |

Typical Derating of Fuse Melting Element

Temperature security margin is 20 %.
 Wire cross-section and fixture test setup refer to ISO 8820-3.
 Please contact Littelfuse for details regarding derating test setup.



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 |
| 1 A | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 A | 2 | 2 | 2 | 2 | 2 | 1 | 1 |
| 3 A | 3 | 3 | 3 | 3 | 2 | 2 | 2 |
| 4 A | 4 | 4 | 4 | 3 | 3 | 3 | 2 |
| 5 A | 5 | 5 | 5 | 4 | 4 | 3 | 3 |
| 7.5 A | 8 | 7 | 7 | 6 | 5 | 5 | 4 |
| 10 A | 10 | 10 | 10 | 8 | 7 | 6 | 5 |
| 15 A | 15 | 15 | 14 | 12 | 11 | 9 | 8 |
| 20 A | 20 | 19 | 18 | 15 | 14 | 12 | 10 |
| 25 A | 25 | 25 | 23 | 19 | 18 | 15 | 13 |
| 30 A | 30 | 29 | 27 | 23 | 21 | 18 | 15 |
| 35 A | 35 | 35 | 35 | 29 | 27 | 22 | 19 |
| 40 A | 40 | 39 | 37 | 31 | 28 | 24 | 20 |

ATOF® SHUNT Maximum Continuous Load at 85°C: 40A

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