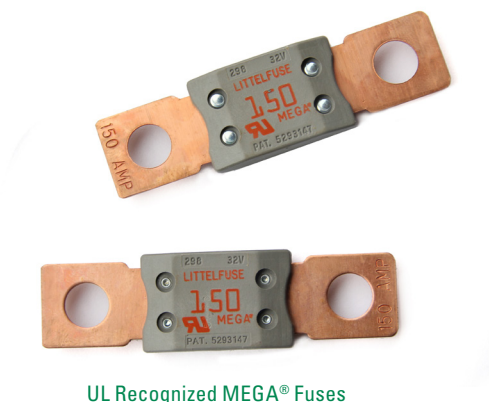




UL Recognized MEGA® Fuses

## UL Recognized MEGA® Fuses Rated 32V

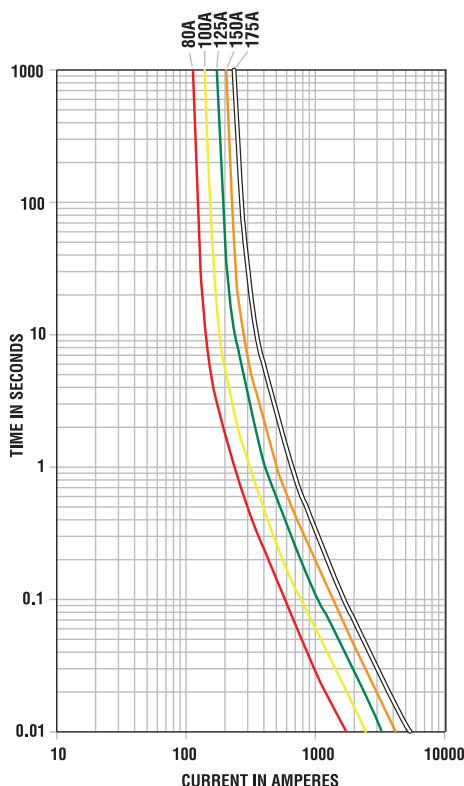
The MEGA® Fuse is designed for high current circuit protection with “Diffusion Pill Technology.” The MEGA® Fuse also provides time delay characteristics. Designed and patented by Littelfuse, the MEGA® Fuse is ideal for battery and alternator protection application and other heavy gauge cables requiring ultra-high current protection.

### Specifications

|                                        |                                               |
|----------------------------------------|-----------------------------------------------|
| Voltage Rating:                        | 32 VDC                                        |
| Interrupting Rating:                   | 2000A @ 32 VDC                                |
| Recommended Environmental Temperature: | -40°C to + 125°C                              |
| Terminals Material:                    | Copper                                        |
| Housing Material:                      | PPA-GF30FR (U.L. 94 Flammability rating - VO) |
| Mounting Torque M8:                    | 12-18 Nm                                      |
| Complies with:                         | ISO 8820-5 ,UL 248 Special Purpose Fuses      |



### Time-Current Characteristic Curves



### Ordering Information

| Part Number     | Rating   | Package Size | Bolt Size |
|-----------------|----------|--------------|-----------|
| 0298xxx.ZXEH-UL | 80 - 175 | 500          | M8        |

### Time-Current Characteristics

| % of Rating | Opening Time Min / Max (s) |
|-------------|----------------------------|
|             | 80A-175A                   |
| 75          | - / -                      |
| 100         | 14,400 / ∞                 |
| 135         | 120 / 1800                 |
| 200         | 1 / 15                     |
| 350         | 0.3 / 5                    |
| 500         | - / -                      |
| 600         | 0.1 / 1                    |

### Ratings

| Part Number     | Current Rating (A) | Color Code | Test Cable Size (mm²) | Typ. Voltage Drop (mV) | Typ. Cold Resistance (mΩ) | Typ. I²t (A²s) |
|-----------------|--------------------|------------|-----------------------|------------------------|---------------------------|----------------|
| 0298080.ZXEH-UL | 80                 | Red        | 10                    | 87                     | 0.72                      | 21,500         |
| 0298100.ZXEH-UL | 100                | Yellow     | 16                    | 87                     | 0.56                      | 31,100         |
| 0298125.ZXEH-UL | 125                | Green      | 16                    | 80                     | 0.42                      | 57,800         |
| 0298150.ZXEH-UL | 150                | Orange     | 25                    | 92                     | 0.35                      | 100,000        |
| 0298175.ZXEH-UL | 175                | White      | 25                    | 62                     | 0.23                      | 168,000        |

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

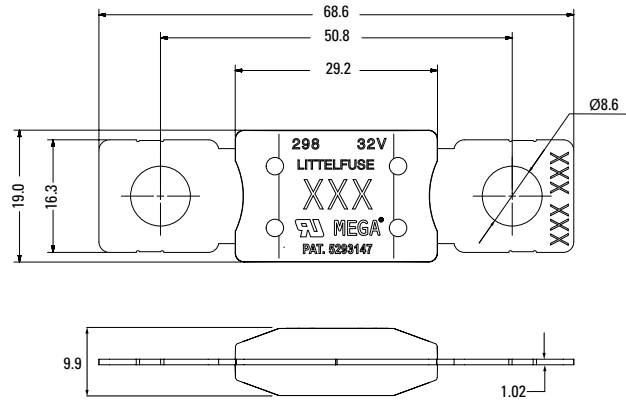
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### Dimensions

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



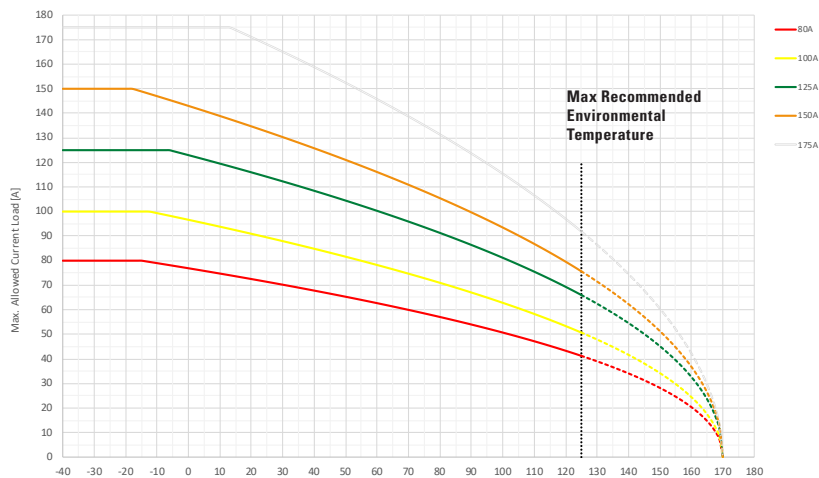
### Temperature Table

|             | max. allowed current load [A] at ambient temperature (typical derating) |     |      |      |      |       |       |
|-------------|-------------------------------------------------------------------------|-----|------|------|------|-------|-------|
|             | -40°C                                                                   | 0°C | 20°C | 65°C | 85°C | 110°C | 125°C |
| <b>80A</b>  | 80                                                                      | 77  | 73   | 61   | 56   | 47    | 41    |
| <b>100A</b> | 100                                                                     | 97  | 91   | 76   | 69   | 58    | 51    |
| <b>125A</b> | 125                                                                     | 123 | 116  | 98   | 89   | 76    | 66    |
| <b>150A</b> | 150                                                                     | 143 | 135  | 114  | 103  | 87    | 76    |
| <b>175A</b> | 175                                                                     | 175 | 171  | 142  | 128  | 107   | 92    |

### Typical Derating of Fuse Melting Element

Temperature Security Margin is 20%

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.

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