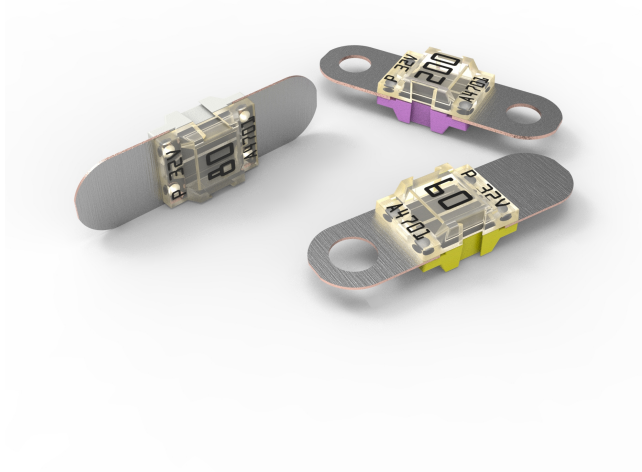


## BF1

## Bolt-down Fuse Rated 32V



## Specifications

|                                               |                                                                              |
|-----------------------------------------------|------------------------------------------------------------------------------|
| <b>Voltage Rating:</b>                        | 32 VDC                                                                       |
| <b>Interrupting Rating:</b>                   | 30A: 1000A @ 32 VDC<br>40 A - 150 A: 2000A @ 32 VDC<br>200 A: 1500A @ 32 VDC |
| <b>Recommended Environmental Temperature:</b> | -40°C to +125°C                                                              |
| <b>Terminals Material:</b>                    | Tin plated Copper                                                            |
| <b>Opaque Housing Material:</b>               | PET-GF33 (U.L. 94 Flammability rating – V0)                                  |
| <b>Clear Housing Material:</b>                | PES (U.L. 94 Flammability rating – HB)                                       |
| <b>Mounting Torque M5:</b>                    | 4.5 Nm +/- 1Nm                                                               |
| <b>Mounting Torque M6:</b>                    | 6.0 Nm +/- 1Nm                                                               |
| <b>Complies with:</b>                         | UL 248 Special Purpose Fuse                                                  |
| <b>Refers To:</b>                             | ISO 8820-5:2015                                                              |

## Description

BF1 32V fuses use Slo-Blo® technology to protect high-current wiring harnesses. Use the 150 A and 200 A fuses only for short circuit protection.

## Applications

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

## Features &amp; Benefits

- Color coding indicates ampere rating
- High-contrast ampere rating stamps aid identification
- Available with one, two or no mounting holes
- Transparent cover make it easier to see when fuse blow

## Ordering Information

| Part Number   | Ratings  | Package Size | Bolt Size | Bolt Hole Qty |
|---------------|----------|--------------|-----------|---------------|
| 153.5631.xxx2 | 30A-200A | 1000         | M5        | 2             |
| 153.5631.xxx1 | 30A-200A | 10           | M5        | 2             |
| 153.7010.xxx2 | 30A-150A | 1000         | M6        | 2             |
| 153.7000.xxx2 | 150-200A | 500          | M6        | 2             |
| 153.0010.xxx2 | 60A-125A | 1000         | M6        | 1             |
| 153.0020.xxx2 | 30A-200A | 500          | --        | 0             |

# BF1

## Bolt-down Fuse Rated 32V

### Ratings

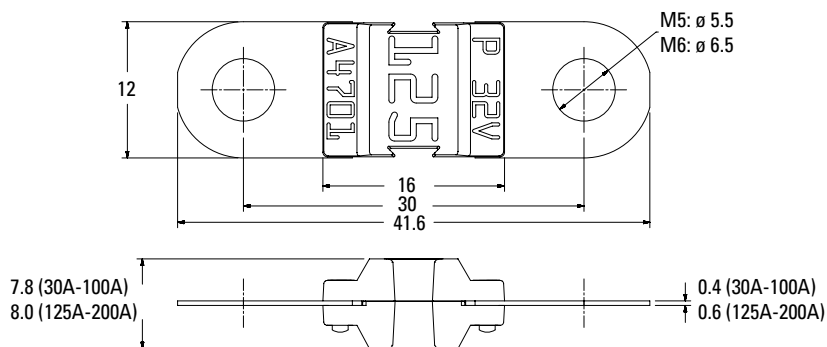
| Part Number                | Current Rating (A) | Housing Material Color | Test Cable Size (mm <sup>2</sup> ) | Typ. Voltage Drop (mV) | Typ. Cold Resistance (mΩ) | Typ. I <sup>2</sup> t (A <sup>2</sup> s) |
|----------------------------|--------------------|------------------------|------------------------------------|------------------------|---------------------------|------------------------------------------|
| 153.xxxx.530_              | 30                 |                        | 2.5                                | 105                    | 2.70                      | 5 100                                    |
| 153.xxxx.540_              | 40                 |                        | 4                                  | 90                     | 1.56                      | 6 800                                    |
| 153.xxxx.550_              | 50                 |                        | 6                                  | 80                     | 1.03                      | 6 900                                    |
| 153.xxxx.560_              | 60                 |                        | 6                                  | 75                     | 0.75                      | 16 200                                   |
| 153.xxxx.570_              | 70                 |                        | 10                                 | 70                     | 0.64                      | 22 000                                   |
| 153.xxxx.580_              | 80                 |                        | 10                                 | 70                     | 0.55                      | 25 600                                   |
| 153.xxxx.610_              | 100                |                        | 16                                 | 70                     | 0.44                      | 42 500                                   |
| 153.xxxx.612_              | 125                |                        | 25                                 | 70                     | 0.34                      | 62 500                                   |
| 153.xxxx.615_ <sup>1</sup> | 150                |                        | 25                                 | 70                     | 0.29                      | 83 400                                   |
| 153.xxxx.620_ <sup>3</sup> | 200                |                        | 35                                 | 70                     | 0.24                      | 126 000                                  |

Note 1: Short Circuit Protector only

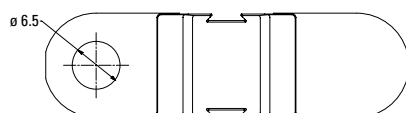
The typical I<sup>2</sup>t is an average value calculated from the breaking capacity tests by using the melting time before the arcing occurs.

### Dimensions

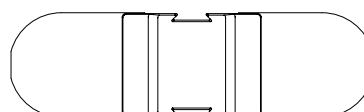
Dimensions in mm for reference only.  
See outline drawing for dimensions and tolerances.



#### 1 Hole M6 version



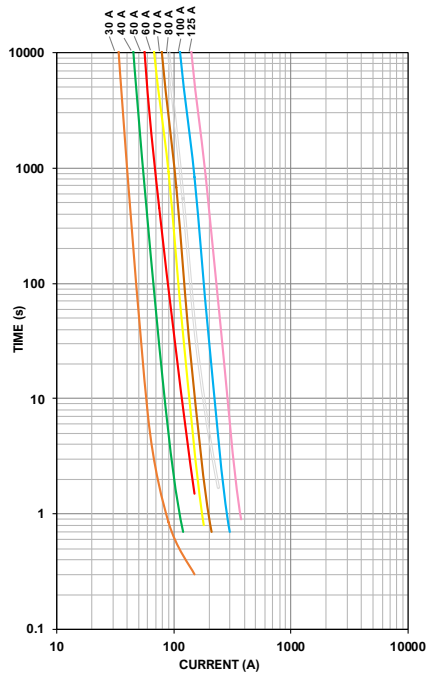
#### No Holes versions



# BF1

## Bolt-down Fuse Rated 32V

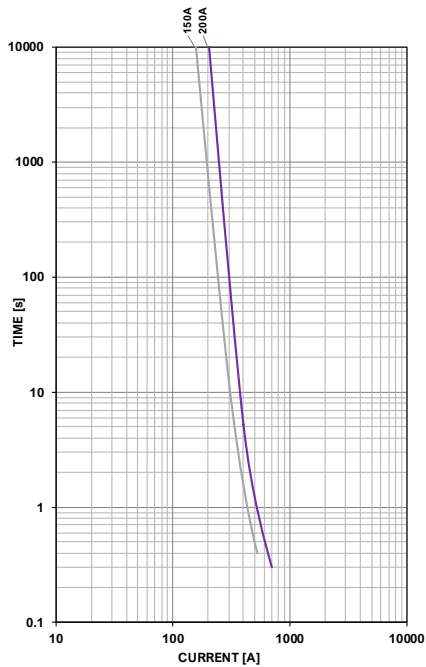
### Time-Current Characteristic Curves



### Time-Current Characteristics

#### Time-Current Characteristics

| % of Rating | Opening Time Min / Max (s) |             |
|-------------|----------------------------|-------------|
|             | 30-125A                    | 150-200 A   |
| 75          | — / —                      | 360,000 / ∞ |
| 100         | 360,000 / ∞                | — / —       |
| 110         | 14,400 / ∞                 | — / —       |
| 150         | 90 / 3,600                 | — / —       |
| 200         | 3 / 100                    | 1 / 15      |
| 300         | 0.3 / 3                    | — / —       |
| 350         | — / —                      | 0.3 / 5     |
| 500         | 0.1 / 1                    | — / —       |
| 600         | — / —                      | 0.1 / 1     |



# BF1

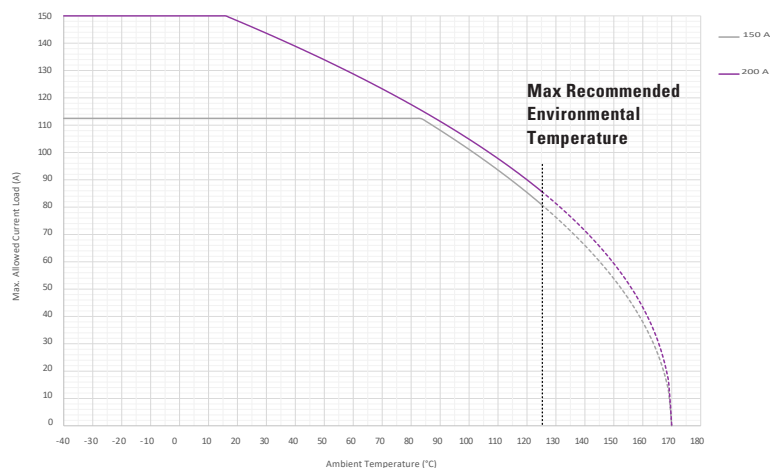
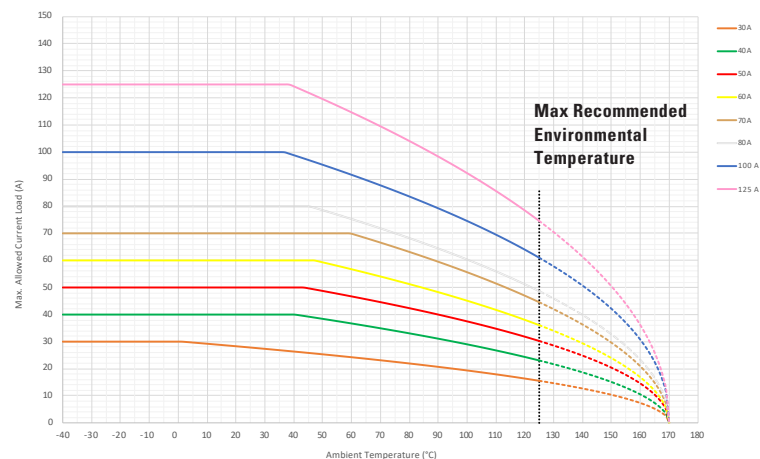
## Bolt-down Fuse Rated 32V

### 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



### 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 |
| 30 A  | 30                                                                      | 30  | 28   | 24   | 21   | 18    | 16    |
| 40 A  | 40                                                                      | 40  | 40   | 36   | 32   | 27    | 23    |
| 50 A  | 50                                                                      | 50  | 50   | 46   | 41   | 35    | 30    |
| 60 A  | 60                                                                      | 60  | 60   | 55   | 50   | 42    | 36    |
| 70 A  | 70                                                                      | 70  | 70   | 68   | 61   | 51    | 45    |
| 80 A  | 80                                                                      | 80  | 80   | 74   | 66   | 56    | 49    |
| 100 A | 100                                                                     | 100 | 100  | 90   | 81   | 70    | 61    |
| 125 A | 125                                                                     | 125 | 125  | 112  | 101  | 86    | 75    |
| 150 A | 113                                                                     | 113 | 113  | 113  | 111  | 94    | 81    |
| 200 A | 150                                                                     | 150 | 148  | 126  | 115  | 98    | 86    |

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