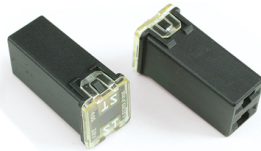




JCASE®  
Cartridge Fuses



JCASE® Shunt

## JCASE® Cartridge Fuses Rated 32V

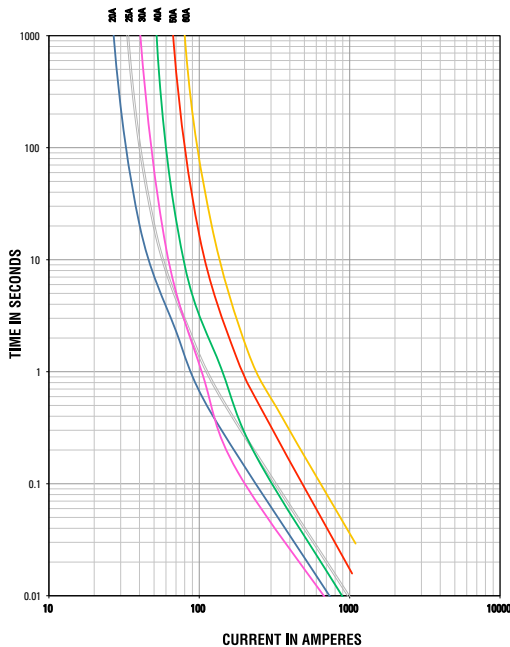
The JCASE® is a cartridge style fuse with female terminal design. JCASE® provides both increased time delay and low voltage drop to protect high current circuits. JCASE® has the ability to handle inrush currents.

### Specifications

|                                        |                                                |
|----------------------------------------|------------------------------------------------|
| Voltage Rating:                        | 32 VDC                                         |
| Interrupting Rating:                   | 1000A @ 32 VDC                                 |
| Recommended Environmental Temperature: | -40°C to + 125°C                               |
| Housing Material:                      | PA66-GF13 (U.L. 94 Flammability rating – HB)   |
| Housing Material (60A):                | PA66-GF13HS (U.L. 94 Flammability rating – HB) |
| Housing Material (SHUNT):              | PA66                                           |
| Cover Material:                        | PC (U.L. 94 Flammability rating – HB)          |
| New Weight Per Fuse:                   | 3.8g ±10%                                      |
| Insertion Force:                       | 53N max. (12 lb.)                              |
| Extraction Force:                      | 9N min. (2 lb.)                                |
| Complies with:                         | SAE 2741, ISO 8820-4                           |



### Time-Current Characteristic Curves



### Ordering Information

| Part Number | Rating  | Package Size |
|-------------|---------|--------------|
| 0495xxx.ZXA | 20 - 60 | 2200         |
| 0495xxx.UXA | 20 - 60 | 500          |
| 0495xxx.TXA | 20 - 60 | 10           |
| 0495900.Z   | SHUNT   | 2200         |
| 0495900.X   | SHUNT   | 1            |

### Time-Current Characteristics

| % of Rating | Opening Time Min / Max (s) |
|-------------|----------------------------|
| 110         | 360,000 / ∞                |
| 135         | 60 / 1800                  |
| 200         | 4 / 60                     |
| 350         | 0.2 / 7                    |
| 600         | 0.04 / 1                   |

### Ratings

| Part Number | Current Rating (A) | Housing Material Color | Test Cable Size (mm²) | Typ. Voltage Drop (mV) | Typ. Cold Resistance (mΩ) | Typ. I²t (A²s) |
|-------------|--------------------|------------------------|-----------------------|------------------------|---------------------------|----------------|
| 0495020_    | 20                 | Blue                   | 4                     | 106                    | 4.29                      | 1,700          |
| 0495025_    | 25                 | White                  | 4                     | 101                    | 3.28                      | 3,200          |
| 0495030_    | 30                 | Pink                   | 4                     | 91                     | 2.12                      | 1,500          |
| 0495040_    | 40                 | Green                  | 4                     | 87                     | 1.30                      | 3,700          |
| 0495050_    | 50                 | Red                    | 6                     | 88                     | 0.99                      | 8,800          |
| 0495060_    | 60                 | Yellow                 | 6                     | 87                     | 0.76                      | 19,500         |
| 0495900_    | SHUNT              | Black                  | -                     | -                      | -                         | -              |

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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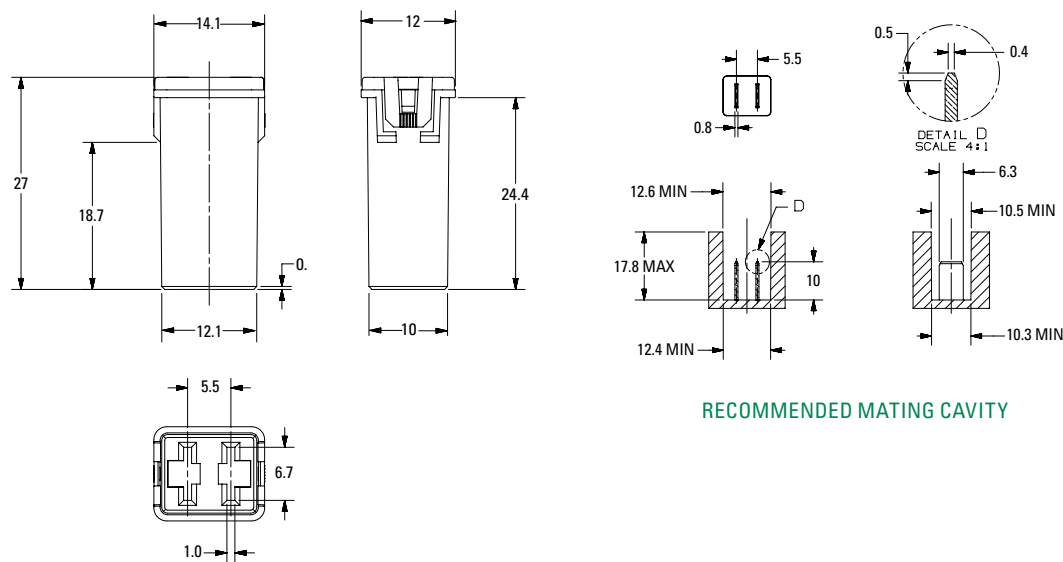
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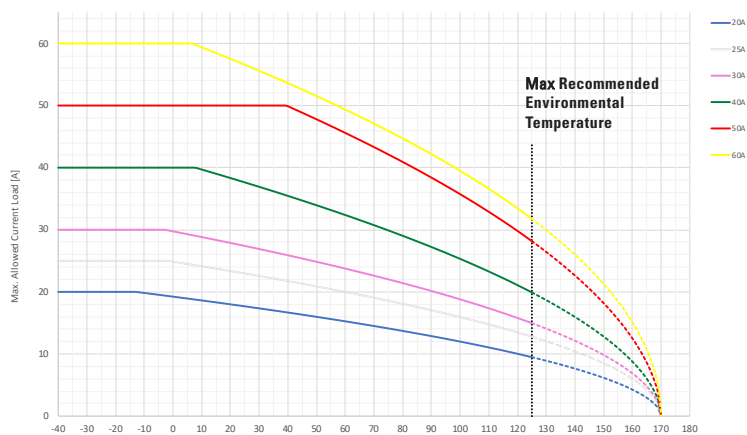
Dimensions

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



Typical Derating of Fuse Melting Element

Temperature Security Margin is 20%  
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 |
| 20A | 20                                                                      | 20  | 20   | 17   | 15   | 12    | 10    |
| 25A | 25                                                                      | 25  | 25   | 20   | 18   | 15    | 13    |
| 30A | 30                                                                      | 30  | 30   | 28   | 25   | 21    | 18    |
| 40A | 40                                                                      | 40  | 40   | 37   | 33   | 27    | 23    |
| 50A | 50                                                                      | 50  | 49   | 40   | 36   | 29    | 25    |
| 60A | 60                                                                      | 60  | 60   | 51   | 46   | 38    | 33    |

SHUNT Maximum Continuous Load: 50A

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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