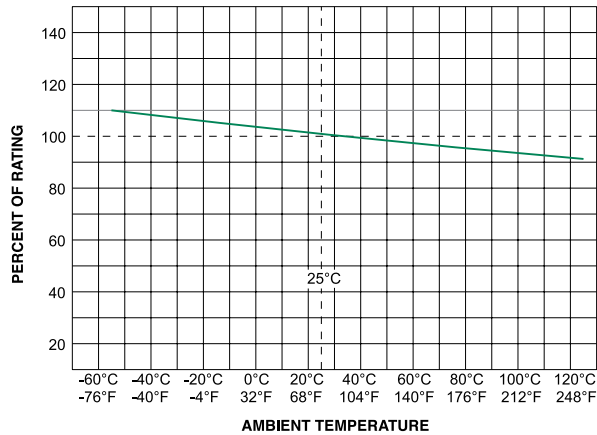


# 505 Series

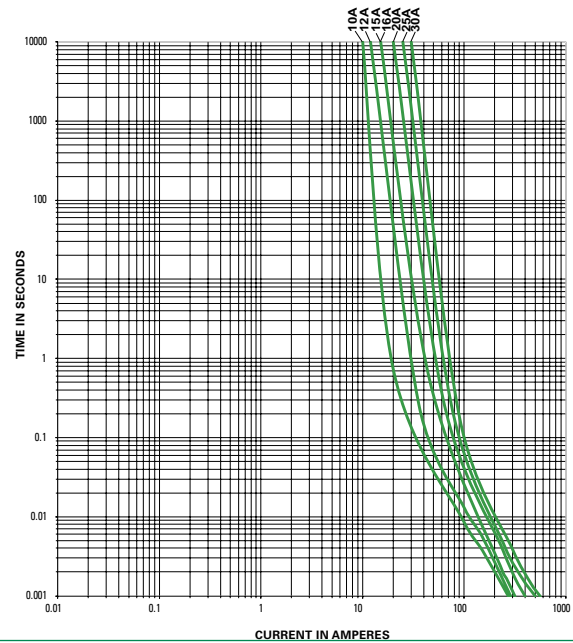
## Lead-free 3AB, Fast-Acting Fuse

### Temperature Re-rating Curve

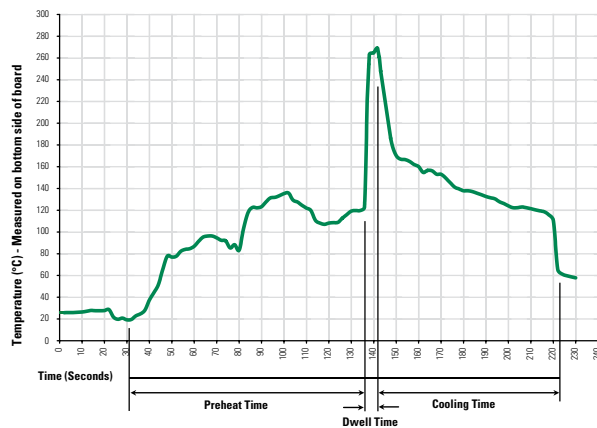
**Note:**

Derating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

### Average Time Current Curves



## Soldering Parameters - Wave Soldering



### Recommended Process Parameters:

| Wave Parameter                                       | Lead-Free Recommendation          |
|------------------------------------------------------|-----------------------------------|
| Preheat:<br>(Depends on Flux Activation Temperature) | (Typical Industry Recommendation) |
| Temperature Minimum:                                 | 100° C                            |
| Temperature Maximum:                                 | 150°C                             |
| Preheat Time:                                        | 60-180 seconds                    |
| Solder Pot Temperature:                              | 270°C                             |
| Solder Dwell Time:                                   | 10 seconds Maximum                |

### Recommended Hand-Solder Parameters:

Solder Iron Temperature: 350°C +/- 5°C  
Heating Time: 5 seconds max.

**Note:** These devices are not recommended for IR or Convection Reflow process.

# 505 Series

## Lead-free 3AB, Fast-Acting Fuse

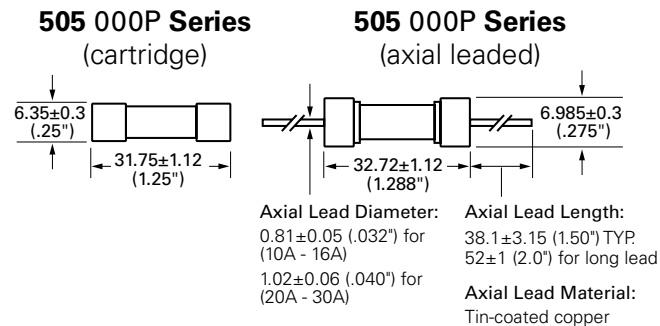
### Product Characteristics

|                          |                                                                                           |
|--------------------------|-------------------------------------------------------------------------------------------|
| <b>Materials</b>         | Body : Ceramic<br>Cap : Nickel-plated brass<br>Leads : Tin-plated Copper                  |
| <b>Terminal Strength</b> | MIL-STD-202, Method 211,<br>Test Condition A                                              |
| <b>Solderability</b>     | MIL-STD-202, Method 208                                                                   |
| <b>Product Marking</b>   | Cap1 : Brand logo, current and voltage ratings<br>Cap2 : Series and agency approval marks |

|                               |                                                                                                                      |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------|
| <b>Operating Temperature:</b> | -55°C to 125°C.                                                                                                      |
| <b>Thermal Shock:</b>         | MIL-STD-202, Method 107, Test Condition B<br>(5 Cycles -65°C to +125°C).                                             |
| <b>Vibration</b>              | MIL-STD-202, Method 201                                                                                              |
| <b>Humidity</b>               | MIL-STD-202, Method 103, Test Condition A:<br>High relative humidity (95%) and elevated temp<br>(40°C) for 240 hours |
| <b>Salt Spray</b>             | MIL-STD-202, Method 101, Test Condition B                                                                            |

### Dimensions

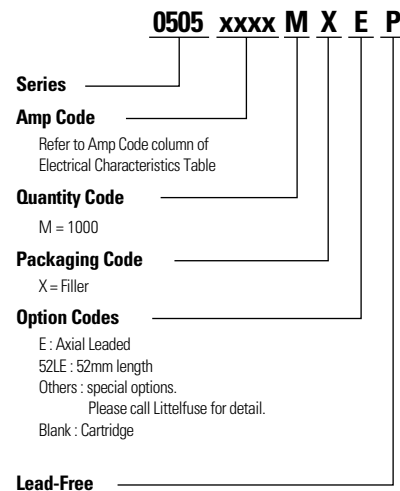
Measurements displayed in millimeters (inches)



### Packaging

| Packaging Option  | Packaging Specification | Quantity | Quantity & Packaging Code | Reel Size |
|-------------------|-------------------------|----------|---------------------------|-----------|
| <b>505 Series</b> |                         |          |                           |           |
| Bulk              | N/A                     | 1000     | MX                        | N/A       |
| Bulk              | N/A                     | 1000     | MXE                       | N/A       |
| Bulk              | N/A                     | 1000     | MX52LE                    | N/A       |
| Tube              | N/A                     | 1500     | DXT                       | N/A       |

### Part Numbering System



### Recommended Accessories

| Accessory Type | Series                 | Description                                 | Max Application Voltage | Max Application Amperage |
|----------------|------------------------|---------------------------------------------|-------------------------|--------------------------|
| Holder         | <a href="#">150322</a> | In-Line Fuseholder                          | 500                     | 15                       |
| Block          | <a href="#">354</a>    | Low Profile OMNI-BLOK® Fuse Block           | 600                     | 30                       |
|                | <a href="#">359</a>    | High Current Screw Terminal Fuse Block      |                         | 30                       |
| Clip           | <a href="#">122</a>    | High Current Traditional PC Board Fuse Clip | 1000                    | 30                       |
|                | <a href="#">101</a>    | Rivet/Eyelet Type Fuse Clip                 | 1000                    | 15                       |

#### Notes:

- Do not use in applications above rating.
- Please refer to fuseholder data sheet for specific re-rating information.
- Please contact factory for applications greater than the max voltage and amperage shown.

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