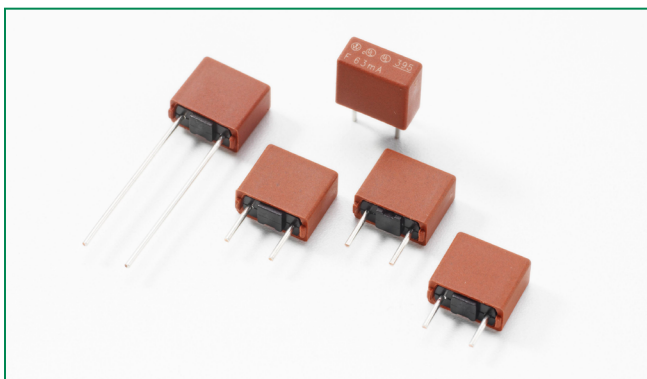


## 395 Series, TE5® Fast-Acting Fuse



### Description

The 395 Series are TE5®, fast-acting type, 125V rated fuses, designed in accordance to UL 248-14.

### Features

- Lead-free
- Reduced PCB space requirements
- Direct solderable or plug-in versions
- Internationally approved
- Low internal resistance
- Shock safe casing
- Vibration resistant
- Halogen Free
- Available from 50mA to 6.3A

### Agency Approvals

| Agency                                                                            | Agency File Number      | Ampere Range |
|-----------------------------------------------------------------------------------|-------------------------|--------------|
|  | File number:<br>E 67006 | 50mA - 6.3A  |
|  | File number:<br>E 67006 | 50mA - 6.3A  |
|  | JET1896-31007-1002      | 1A - 5A      |

### Applications

- Battery chargers
- Consumer Electronics
- Power supplies
- Industrial controllers

### Additional Information



Datasheet



Resources



Samples

### Electrical Characteristics

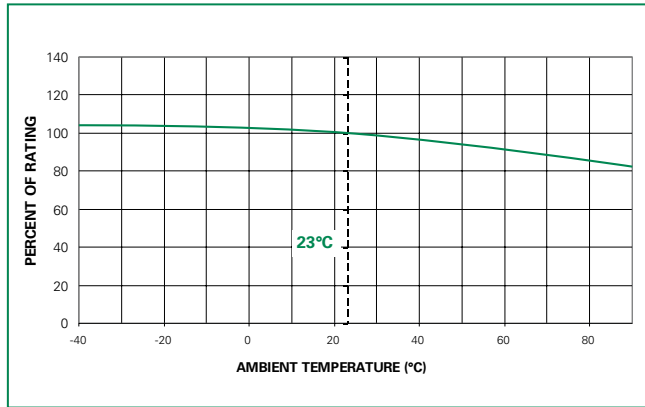
| % of Ampere Rating | Opening Time            |
|--------------------|-------------------------|
| 200%               | 60 Seconds, <b>Max.</b> |

### Electrical Characteristics

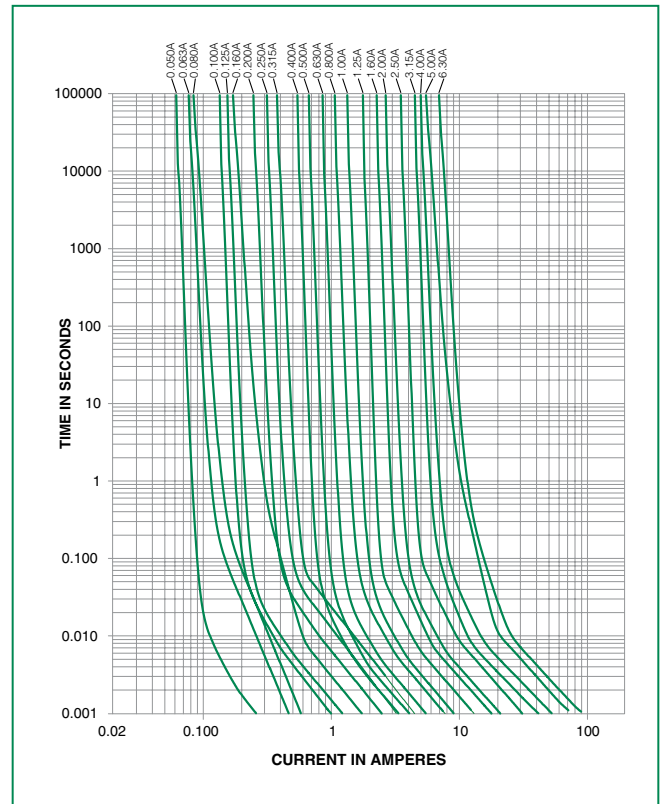
| Amp Code | Rated Current | Voltage Rating | Breaking Capacity                         | Voltage Drop<br>1.0xI <sub>N</sub><br>max. (mV) | Power Dissipation<br>1.0xI <sub>N</sub><br>max. (mW) | Melting Integral<br>10xI <sub>N</sub><br>max. (A²s) | Agency Approvals                                                                      |                                                                                       |                                                                                       |
|----------|---------------|----------------|-------------------------------------------|-------------------------------------------------|------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|          |               |                |                                           |                                                 |                                                      |                                                     |  |  |  |
| 0050     | 50mA          | 125V           | 100A / 125 VAC<br>50-60 Hz<br>cos φ = 1.0 | 1600                                            | 85                                                   | 0.0001                                              | x                                                                                     | x                                                                                     |                                                                                       |
| 0063     | 63mA          | 125V           |                                           | 1300                                            | 85                                                   | 0.00013                                             | x                                                                                     | x                                                                                     |                                                                                       |
| 0080     | 80mA          | 125V           |                                           | 1200                                            | 100                                                  | 0.0002                                              | x                                                                                     | x                                                                                     |                                                                                       |
| 0100     | 100mA         | 125V           |                                           | 1100                                            | 110                                                  | 0.0013                                              | x                                                                                     | x                                                                                     |                                                                                       |
| 0125     | 125mA         | 125V           |                                           | 1350                                            | 160                                                  | 0.0019                                              | x                                                                                     | x                                                                                     |                                                                                       |
| 0160     | 160mA         | 125V           |                                           | 1000                                            | 150                                                  | 0.0037                                              | x                                                                                     | x                                                                                     |                                                                                       |
| 0200     | 200mA         | 125V           |                                           | 950                                             | 210                                                  | 0.0075                                              | x                                                                                     | x                                                                                     |                                                                                       |
| 0250     | 250mA         | 125V           |                                           | 900                                             | 225                                                  | 0.013                                               | x                                                                                     | x                                                                                     |                                                                                       |
| 0315     | 315mA         | 125V           |                                           | 800                                             | 255                                                  | 0.026                                               | x                                                                                     | x                                                                                     |                                                                                       |
| 0400     | 400mA         | 125V           |                                           | 230                                             | 95                                                   | 0.015                                               | x                                                                                     | x                                                                                     |                                                                                       |
| 0500     | 500mA         | 125V           |                                           | 220                                             | 110                                                  | 0.025                                               | x                                                                                     | x                                                                                     |                                                                                       |
| 0630     | 630mA         | 125V           |                                           | 210                                             | 135                                                  | 0.045                                               | x                                                                                     | x                                                                                     |                                                                                       |
| 0800     | 800mA         | 125V           |                                           | 200                                             | 160                                                  | 0.068                                               | x                                                                                     | x                                                                                     |                                                                                       |
| 1100     | 1.00A         | 125V           |                                           | 190                                             | 190                                                  | 0.13                                                | x                                                                                     | x                                                                                     | x                                                                                     |
| 1125     | 1.25A         | 125V           |                                           | 180                                             | 225                                                  | 0.2                                                 | x                                                                                     | x                                                                                     | x                                                                                     |
| 1160     | 1.60A         | 125V           |                                           | 170                                             | 275                                                  | 0.39                                                | x                                                                                     | x                                                                                     | x                                                                                     |
| 1200     | 2.00A         | 125V           |                                           | 160                                             | 450                                                  | 0.53                                                | x                                                                                     | x                                                                                     | x                                                                                     |
| 1250     | 2.50A         | 125V           |                                           | 150                                             | 375                                                  | 1.1                                                 | x                                                                                     | x                                                                                     | x                                                                                     |
| 1315     | 3.15A         | 125V           |                                           | 140                                             | 445                                                  | 1.9                                                 | x                                                                                     | x                                                                                     | x                                                                                     |
| 1400     | 4.00A         | 125V           |                                           | 130                                             | 520                                                  | 3.2                                                 | x                                                                                     | x                                                                                     | x                                                                                     |
| 1500     | 5.00A         | 125V           |                                           | 120                                             | 600                                                  | 6.1                                                 | x                                                                                     | x                                                                                     | x                                                                                     |
| 1630     | 6.30A         | 125V           |                                           | 115                                             | 850                                                  | 9.7                                                 | x                                                                                     | x                                                                                     |                                                                                       |

Note: 1.00 means the number one with two decimal places. 1,000 means the number one thousand.

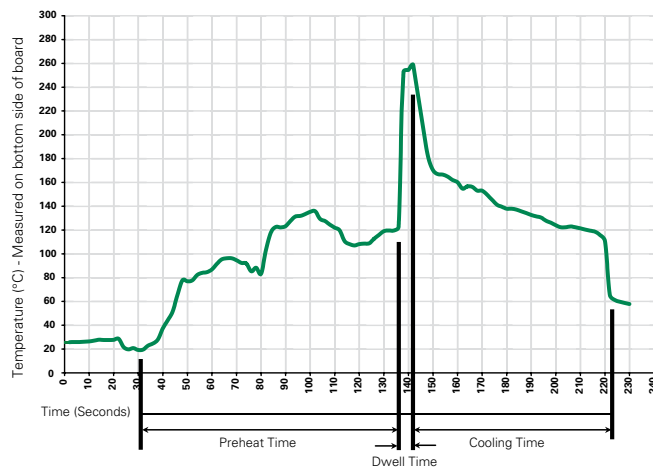
## Temperature Derating Curve



## Average Time Current Curves



## Soldering Parameters - Wave Soldering



### Recommended Process Parameters:

| Wave Parameter                                              | Lead-Free Recommendation          |
|-------------------------------------------------------------|-----------------------------------|
| <b>Preheat:</b><br>(Depends on Flux Activation Temperature) | (Typical Industry Recommendation) |
| Temperature Minimum:                                        | 100° C                            |
| Temperature Maximum:                                        | 150° C                            |
| Preheat Time:                                               | 60-180 seconds                    |
| <b>Solder Pot Temperature:</b>                              | 260° C Maximum                    |
| <b>Solder Dwell Time:</b>                                   | 2-5 seconds                       |

### Recommended Hand-Solder Parameters:

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

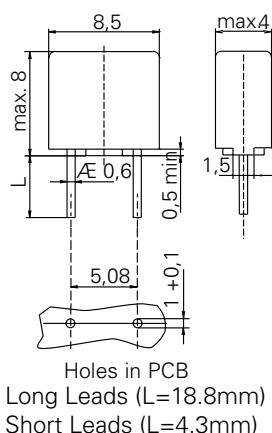
**Note:** These devices are not recommended for IR or Convection Reflow process.

### Product Characteristics

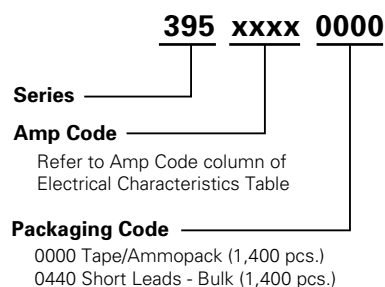
|                                  |                                                                                                |
|----------------------------------|------------------------------------------------------------------------------------------------|
| <b>Materials</b>                 | Base/Cap: Brown Thermoplastic<br>Polyamide PA 6.6, UL 94 V-0<br>Round Pins: Copper, Tin-plated |
| <b>Lead Pull Strength</b>        | 10 N (IEC 60068-2-21)                                                                          |
| <b>Solderability</b>             | 260°C, ≤ 3s. (Wave)<br>350°C, ≤ 1s. (Soldering Iron)                                           |
| <b>Soldering Heat Resistance</b> | 260°C, 10s. (IEC 60068-2-20)<br>350°C, 3s. (Soldering Iron)                                    |

|                              |                                                                                                                     |
|------------------------------|---------------------------------------------------------------------------------------------------------------------|
| <b>Operating Temperature</b> | -40°C to +85°C (consider de-rating)                                                                                 |
| <b>Climatic Category</b>     | -40°C to +85°C/21 days<br>(EN 60068-1,-2-1,-2-2,-2-78)                                                              |
| <b>Stock Conditions</b>      | +10 °C to +60 °C<br>RH ≤ 75% yearly average, without<br>dew, maximum value for 30 days-<br>95%                      |
| <b>Vibration Resistance</b>  | 24 cycles at 15 min. each<br>(EN 60068-2-6)<br>10 - 60 Hz at 0.75 mm amplitude<br>60 - 2000 Hz at 10 g acceleration |

### Dimensions



### Part Numbering System



### Packaging

| Packaging Option  | Packaging Specification | Quantity | Quantity & Packaging Code | Taping Width |
|-------------------|-------------------------|----------|---------------------------|--------------|
| <b>395 Series</b> |                         |          |                           |              |
| Tape & Ammopack   | N/A                     | 1,400    | 0000                      | N/A          |
| Short Leads       | N/A                     | 1,400    | 0440                      | N/A          |