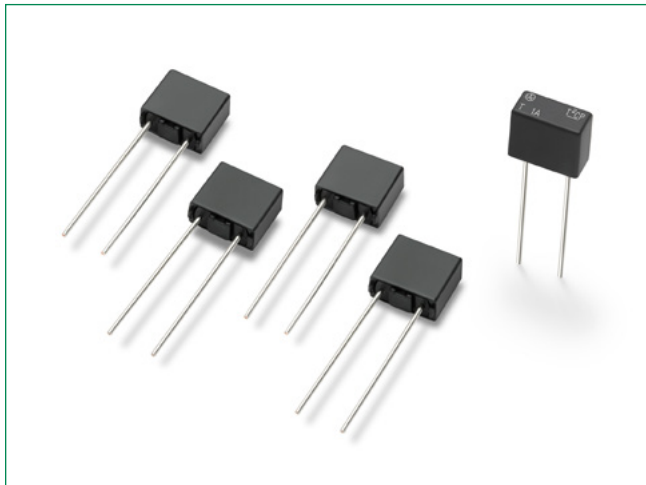


### 397 Series, TE5 Transient Tolerant Fuse




#### Description

The 397 Series TE5 Fuses are SLO BLO® type, 125V rated and designed in accordance to UL248-14.

#### Features

- Surge Proof for telecom applications
- Reduced PCB space requirements
- Direct solderable or plug-in versions
- Shock safe casing
- Vibration resistant
- Lead-free, Halogen free and RoHS compliant
- Available from 0.35A to 1.5A
- Listed to UL/CSA/NMX 248-1 and UL/CSA/NMX 248-14

#### Agency Approvals

| Agency  | Agency File Number | Ampere Range |
|---|--------------------|--------------|
|  | E67006             | 0.35A - 1.5A |

#### Applications

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

#### Electrical Characteristics

| % of Ampere Rating | Opening Time                            |
|--------------------|---|
| 200%               | 60 Seconds, <b>Min.</b>                 |
| 570%               | 80 ms. <b>Min.</b> ; 2 Sec. <b>Max.</b> |
| 1700%              | 200 s., <b>Max.</b>                     |

#### Additional Information



**Datasheet**




**Resources**



**Samples**

#### Electrical Characteristics

| Amp Code | Rated Current | Voltage Rating | Breaking Capacity | Nominal Cold Resistance (Ohms) | Voltage Drop 1.0xI <sub>N</sub> max. (mV) | Power Dissipation 1.0xI <sub>N</sub> max. (mW) | Melting Integral 10xI <sub>N</sub> min. (A <sup>2</sup> s) | Surge Amplitude (A) <sup>1</sup> |          |     | Agency Approvals  |
|----------|---------------|----------------|-------------------|--------------------------------|---|--|--|----------------------------------|----------|-----|--|
|          |               |                |                   |                                |   |  |  | FCC                              | Bellcore | ITU |  |
| 0350     | 350 mA        | 125 V          | 50A@125 VAC       | 0.5665                         | 400                                       | 140  | 0.60   | 25                               | 15       | 29  | x  |
| 0500     | 500 mA        | 125 V          |                   | 0.3424                         | 340                                       | 170  | 1.10   | 30                               | 17       | 38  | x  |
| 0800     | 800 mA        | 125 V          |                   | 0.1616                         | 300                                       | 240  | 3.26   | 60                               | 31       | 50  | x  |
| 1100     | 1.00 A        | 125 V          |                   | 0.1000                         | 240                                       | 240  | 4.85   | 78                               | 40       | 65  | x  |
| 1125     | 1.25 A        | 125 V          |                   | 0.0716                         | 200                                       | 250  | 7.34   | 100                              | 50       | 67  | x  |
| 1150     | 1.50 A        | 125 V          |                   | 0.0522                         | 190                                       | 285  | 10.91  | 155                              | 78       | 67  | x  |

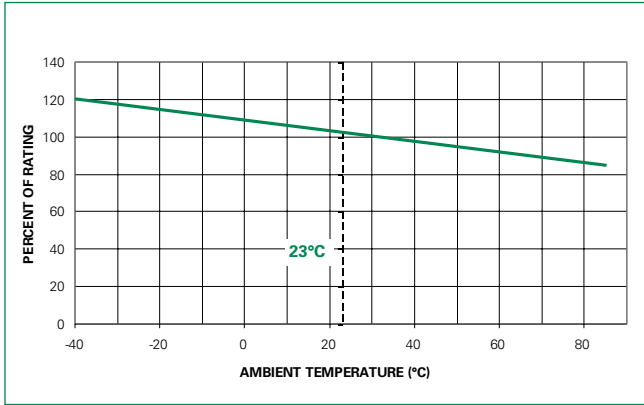
#### Notes:

**A.** 1.00 means the number one with two decimal places. 1,000 means the number one thousand.

**B.** Resistance is measured at 10% of rated current, 25°C.

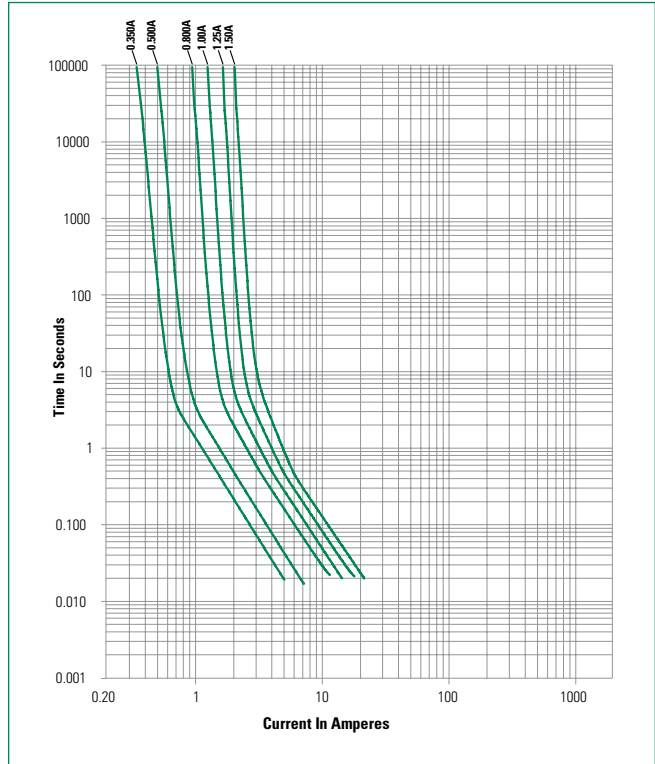
- FCC 47 Part 68: Minimum pulse load quantity is 2 pulses at a test generator output of 800 V and 10x560µs waveform.  
ITU-T K.20: Minimum pulse load quantity is 30 pulses at a test generator output of 1000 V, 67 A and 10x700µs waveform.  
Bellcore GR-1089: Minimum pulse load quantity is 50 pulses at a test generator output of 1000 V and 10x1000µs.

### Temperature Re-rating Curve

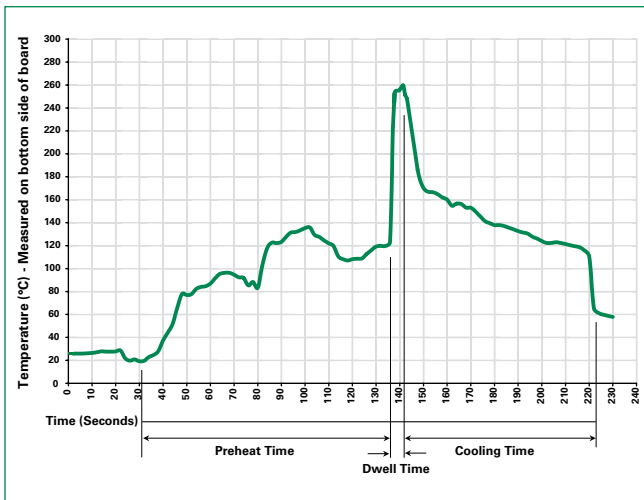


**Note:**  
1. Rerating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

### 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:                              | 260°C Maximum                     |
| Solder Dwell Time:                                   | 2-5 seconds                       |

### Recommended Hand-Solder Parameters:

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

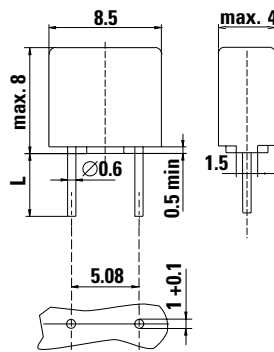
**Note:** These devices are not recommended for IR or Convection Reflow process.

### Product Characteristics

|                                  |  |
|----------------------------------|--|
| <b>Materials</b>                 | Base/Cap: Thermoplastic Polyamide PA 6.6, UL 94V-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)                          |

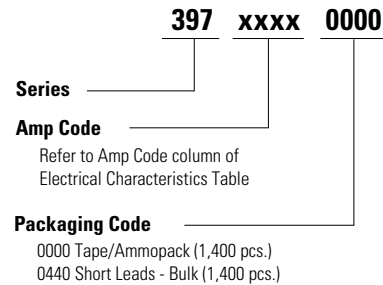
|                              |   |
|------------------------------|---|
| <b>Operating Temperature</b> | -40°C to +125°C (consider de-rating)  |
| <b>Climatic Category</b>     | -40°C to +85°C/21 days<br>(IEC 60068-1,-2-1,-2-2,-78)   |
| <b>Stock Conditions</b>      | +10°C to +60°C RH,<br>≤ 75% yearly average, without dew, maximum value for 30 days-95%                          |
| <b>Vibration Resistance</b>  | 24 cycles at 15 min. each<br>(EN 60068-2-6)<br>10 - 60Hz at 0.75mm amplitude<br>60 - 2000Hz at 10g acceleration |

### Dimensions



Dimensions (mm)  
 Holes in PCB  
 Long Leads (L=18.8 mm)  
 Short Leads (L=4.3 mm)

### Part Numbering System



### Packaging

| Packaging Option  | Packaging Specification | Quantity | Quantity & Packaging Code | Taping Width |
|-------------------|-------------------------|----------|---------------------------|--------------|
| <b>397 Series</b> |                         |          |                           |              |
| Tape & Ammopack   | N/A                     | 1,400    | 0000                      | N/A          |
| Short Leads       | N/A                     | 1,400    | 0440                      | N/A          |

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