

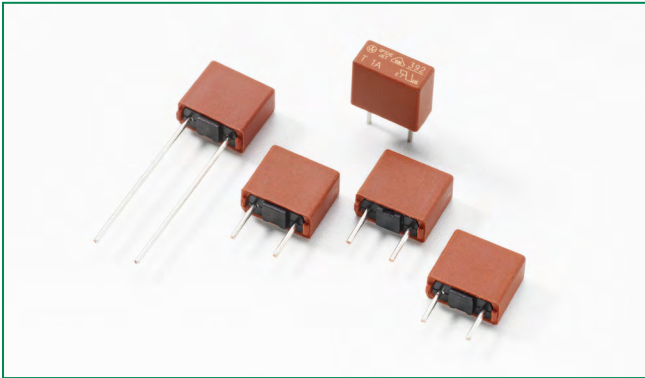
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392 Series, TE5 Time-Lag Fuse



**Description**

TE5 Fuse, Time-Lag type, 250V rated, designed in accordance to IEC 60127-3.

**Features**

- Reduced PCB space requirements
- Direct solderable or plug-in versions
- Internationally approved
- Low internal resistance
- Shock safe casing
- Vibration resistant
- Halogen free, Lead-free and RoHS compliant

**Applications**

- Battery Chargers
- Consumer Electronics
- Power supplies
- Industrial Controllers
- Chargers

**Additional Information**



Datasheet



Resources



Samples

**Electrical Characteristics for Series**

| % of Ampere Rating | Opening Time                             |
|--------------------|--|
| 150%               | 1 Hour, <b>Min.</b>                      |
| 210%               | 120 s, <b>Max.</b>                       |
| 275%               | 400 ms <b>Min.</b> ; 10 Sec. <b>Max.</b> |
| 400%               | 150 ms <b>Min.</b> ; 3 Sec. <b>Max.</b>  |
| 1000%              | 20 ms <b>Min.</b> ; 150 ms <b>Max.</b>   |

**Agency Approvals**

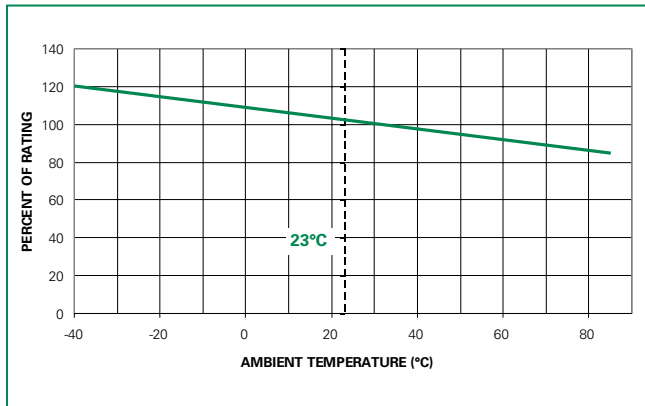
| Agency | Agency File Number   | Ampere Range           |
|--------|--|------------------------|
|        | 126983   | 0.28A - 6.3A           |
|        | 1410866<br>1026673   | 0.8A - 4A<br>5A - 6.3A |
|        | E67006   | 0.28A - 6.3A           |
|        | JET1896-31007-2002   | 1A - 5A                |
|        | CQC07012021162   | 0.8A - 6.3A            |
|        | SU05024 - 7013A<br>SU05024 - 7014A<br>SU05024 - 7015A<br>SU05024 - 7016A<br>SU05024 - 7017A<br>SU05024 - 7018A | 0.8A - 6.3A            |

**Electrical Characteristic Specifications by Item**

| Rated Current | Amp Code | Voltage Rating | Breaking Capacity | Nominal Cold Resistance (Ohms) | Voltage Drop 1.0xI <sub>N</sub> max. (mV) | Power Dissipation 1.5xI <sub>N</sub> max. (mW) | Melting Integral 10xI <sub>N</sub> max. (A <sup>2</sup> s) | Agency Approvals |   |   |   |   |   |  |
|---------------|----------|----------------|-------------------|--------------------------------|---|--|--|------------------|---|---|---|---|---|--|
|               |          |                |                   |                                |   |  |  |                  |   |   |   |   |   |  |
| 280 mA        | 0280     | 250V           | 35A@250VAC        | 0.3300                         | 115                                       | 168  | 0.048  | x                |   | x |   |   |   |  |
| 800 mA        | 0800     | 250V           | 25A@250VAC        | 0.0960                         | 110                                       | 280  | 5.120  | x                | x | x |   | x | x |  |
| 1.00 A        | 1100     | 250V           |                   | 0.0715                         | 115                                       | 400  | 8.00   | x                | x | x | x | x | x |  |
| 1.25 A        | 1125     | 250V           |                   | 0.0569                         | 100                                       | 500  | 11.95  | x                | x | x | x | x | x |  |
| 1.60 A        | 1160     | 250V           |                   | 0.0400                         | 95  | 600  | 18.43  | x                | x | x | x | x | x |  |
| 2.00 A        | 1200     | 250V           |                   | 0.0298                         | 90  | 700  | 29.00  | x                | x | x | x | x | x |  |
| 2.50 A        | 1250     | 250V           |                   | 0.0240                         | 85  | 750  | 47.81  | x                | x | x | x | x | x |  |
| 3.15 A        | 1315     | 250V           | 32A@250VAC        | 0.0170                         | 80  | 1100   | 78.39  | x                | x | x | x | x | x |  |
| 4.00 A        | 1400     | 250V           | 40A@250VAC        | 0.0128                         | 75  | 1200   | 126.40   | x                | x | x | x | x | x |  |
| 5.00 A        | 1500     | 250V           | 50A@250VAC        | 0.0101                         | 70  | 1000   | 106.25   | x                | x | x | x | x | x |  |
| 6.30 A        | 1630     | 250V           | 63A@250VAC        | 0.0077                         | 65  | 1200   | 160.74   | x                | x | x |   | x | x |  |

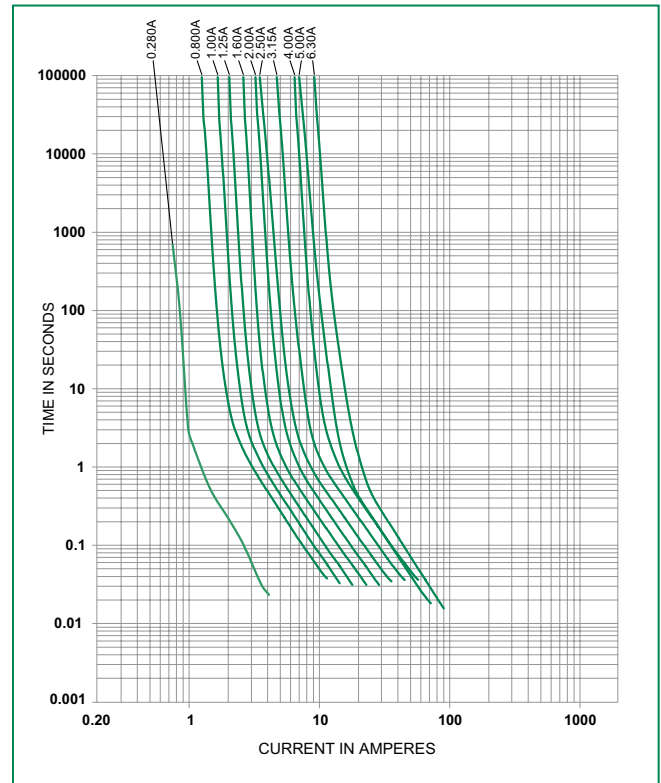
Notes:  
1) 1.00 means the number one with two decimal places. 1,000 means the number one thousand.  
2) Resistance is measured at 10% of rated current, 25°C.

### Temperature Re-rating Curve

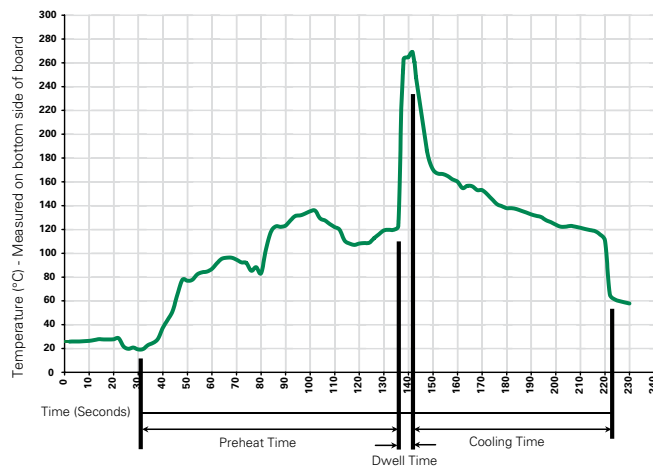


Note:  
 1. Rerating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

### Average Time Current Curves



### Soldering Parameters - Wave Soldering



### Recommended Process Parameters:

| Wave Parameter  | Lead-Free Recommendation          |
|---|-----------------------------------|
| <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.

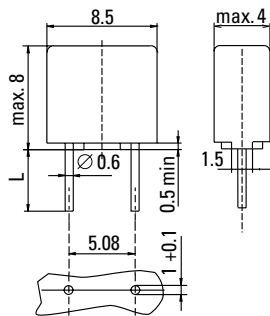
**Note: These devices are not recommended for IR or Convection Reflow process.**

### Product Characteristics

|                                  |   |
|----------------------------------|---|
| <b>Materials</b>                 | Base/Cap: Brown Thermoplastic 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, ≤ 3 sec. (Wave)<br>350°C, ≤ 3 sec. (Soldering iron)                                  |
| <b>Soldering Heat Resistance</b> | 260°C, 10 sec. (IEC 60068-2-20)<br>350°C, ≤ 3 sec. (Soldering iron)                         |

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

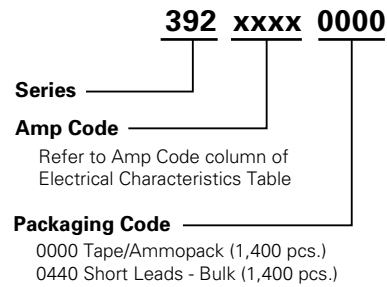
### Dimensions



Holes in the printed circuit board

Long Leads (L=18.8mm)  
Short Leads (L=4.3mm)

### Part Numbering System



### Packaging

| Packaging Option  | Packaging Specification | Quantity | Quantity & Packaging Code | Taping Width |
|-------------------|-------------------------|----------|---------------------------|--------------|
| Tape and Ammopack | N/A                     | 1,400    | 0000                      | N/A          |
| Short Leads       | N/A                     | 1,400    | 0440                      | N/A          |