

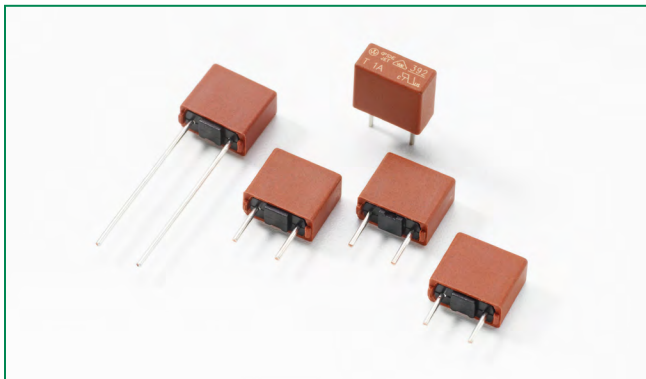
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392 Series, TE5 Time-Lag Fuse



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, Min. |
| 210% | 120 s, Max. |
| 275% | 400 ms Min. ; 10 Sec. Max. |
| 400% | 150 ms Min. ; 3 Sec. Max. |
| 1000% | 20 ms Min. ; 150 ms Max. |

Agency Approvals

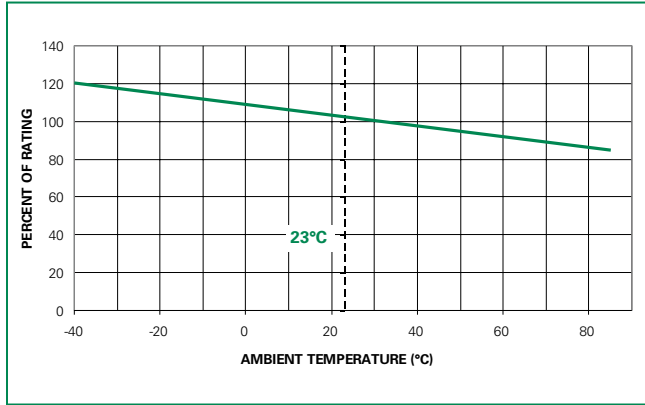
| Agency | Agency File Number | Ampere Range |
|--------|--|------------------------|
| | 126983 | 0.28A - 6.3A |
| | 1410866 1026673 | 0.8A - 4A 5A - 6.3A |
| | E67006 | 0.28A - 6.3A |
| | JET1896-31007-2002 | 1A - 5A |
| | CQC07012021162 | 0.8A - 6.3A |
| | SU05024 - 7013A SU05024 - 7014A SU05024 - 7015A SU05024 - 7016A SU05024 - 7017A 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 _N max. (mV) | Power Dissipation 1.5xI _N max. (mW) | Melting Integral 10xI _N max. (A ² 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 | |

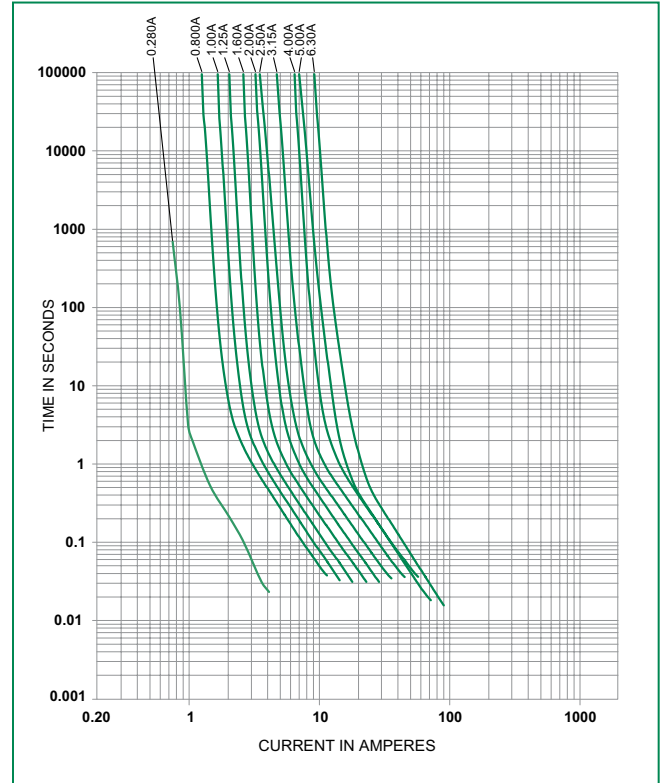
Notes:
1) 1.00 means the number one with two decimal places. 1,000 means the number one thousand.
2) Resistance is measured at 10% of rated current, 25°C.

Temperature Re-rating Curve

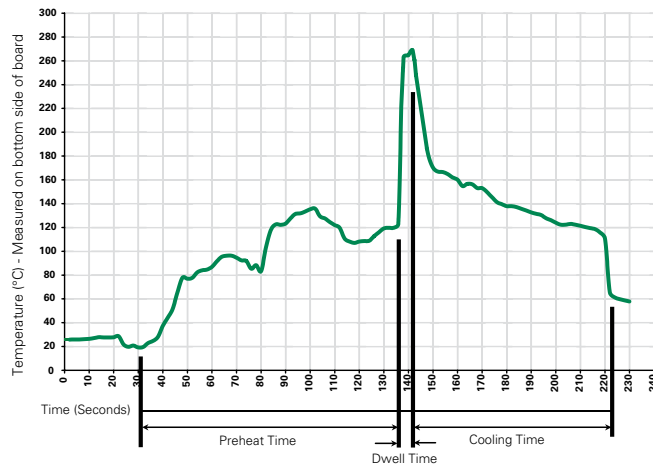


Note:
 1. Rerating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

Average Time Current Curves



Soldering Parameters - Wave Soldering



Recommended Process Parameters:

| Wave Parameter | Lead-Free Recommendation |
|---|-----------------------------------|
| Preheat: (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.

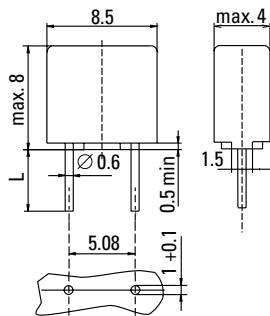
Note: These devices are not recommended for IR or Convection Reflow process.

Product Characteristics

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

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

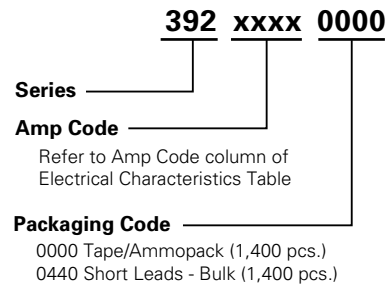
Dimensions



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 |