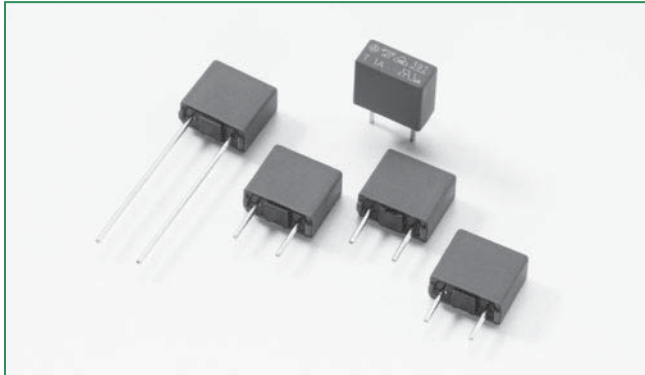


RoHS  **392 Series, TE5®, Time-Lag Fuse**



### Description

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







### Features

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

### Applications

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







### Agency Approvals

Agency	Agency File Number	Ampere Range
	5007679-1170-0007/82577	800mA - 6.3A
	709069, 710076	800mA - 6.3A
	E67006	800mA - 6.3A
	JET1896-31007-2002	1A - 5A
	CQC07012021162	800mA - 6.3A
	SU05024-7013 SU05024-7014 SU05024-7015 SU05024-7016 SU05024-7017 SU05024-7018	800mA - 6.3A

### 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>

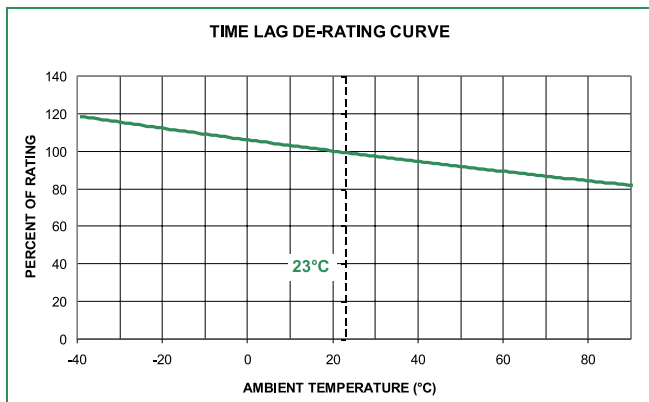
### Electrical Characteristic Specifications by Item

Amp Code	Rated Current	Voltage Rating	Breaking Capacity	Voltage Drop 1.0 x I <sub>N</sub> max. (mV)	Power Dissipation 1.5 x I <sub>N</sub> max. (mW)	Melting Integral 10 x I <sub>N</sub> min. (A <sup>2</sup> s)	Agency Approvals					
												
0800	800 mA	250V	25A/250 VAC	110	280	3.80	x	x	x		x	x
1100	1.00 A	250V	25A/250 VAC	115	400	5.80	x	x	x	x	x	x
1125	1.25 A	250V	25A/250 VAC	100	500	9.75	x	x	x	x	x	x
1160	1.60 A	250V	25A/250 VAC	95	600	13.50	x	x	x	x	x	x
1200	2.00 A	250V	25A/250 VAC	90	700	21.00	x	x	x	x	x	x
1250	2.50 A	250V	25A/250 VAC	85	750	32.00	x	x	x	x	x	x
1315	3.15 A	250V	32A/250 VAC	80	1100	55.00	x	x	x	x	x	x
1400	4.00 A	250V	40A/250 VAC	75	1200	100.00	x	x	x	x	x	x
1500	5.00 A	250V	50A/250 VAC	70	1000	90.00	x	x	x	x	x	x
1630	6.30 A	250V	63A/250 VAC	65	1200	126.00	x	x	x		x	x

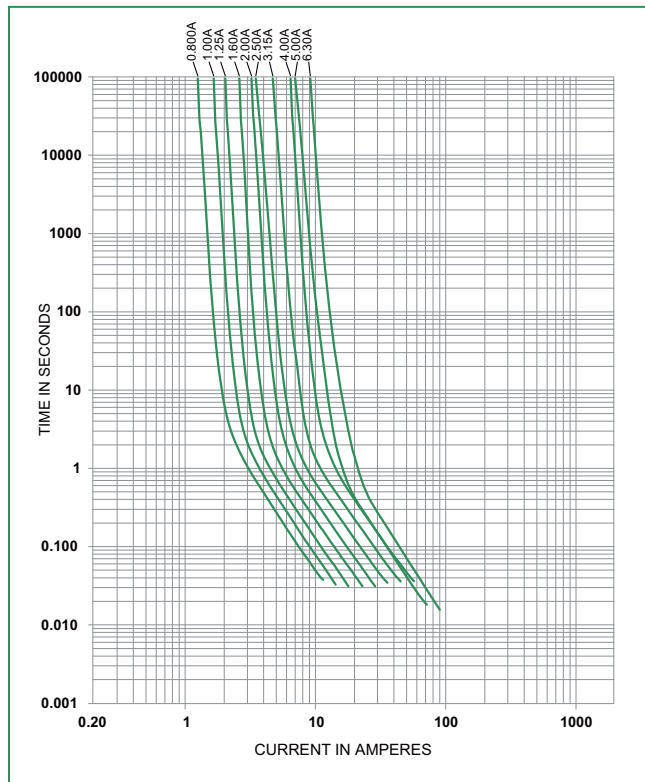
Note: 1.00 means the number one with two decimal places. 1,000 means the number one thousand.

392 Series

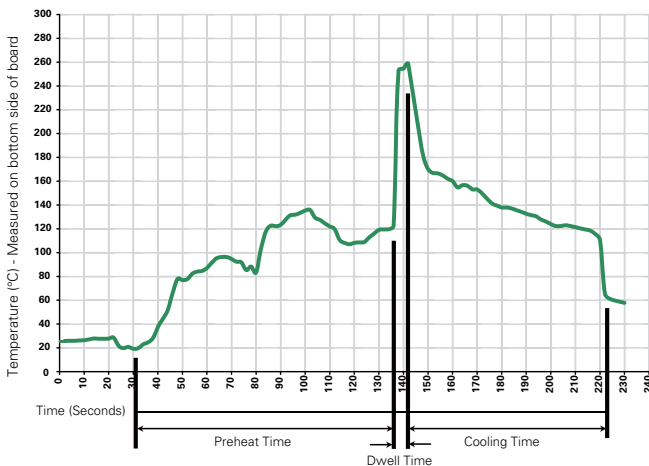
## Temperature Derating Curve



## Average Time Current Curves



## Soldering Parameters - Wave Soldering



### Recommended Process Parameters:

Wave Parameter	Lead-Free Recommendation
<b>Preheat:</b> (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.**

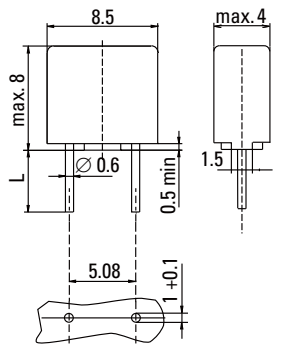
### Product Characteristics

<b>Materials</b>	Base/Cap: Brown Thermoplastic Polyamide PA 6.6, UL 94 V-0 Round Pins: Copper, Tin-plated
<b>Lead Pull Strength</b>	10 N (IEC 60068-2-21)
<b>Solderability</b>	260°C, ≤ 3 sec. (Wave) 350°C, ≤ 3 sec. (Soldering iron)
<b>Soldering Heat Resistance</b>	260°C, 10 sec. (IEC 60068-2-20) 350°C, ≤ 3 sec. (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 (EN 60068-1,-2-1,-2-2,-2-78)
<b>Stock Conditions</b>	+10 °C to +60 °C RH ≤ 75% yearly average, without dew, maximum value for 30 days-95%
<b>Vibration Resistance</b>	24 cycles at 15 min. each (EN 60068-2-6) 10 - 60 Hz at 0.75 mm amplitude 60 - 2000 Hz at 10 g acceleration

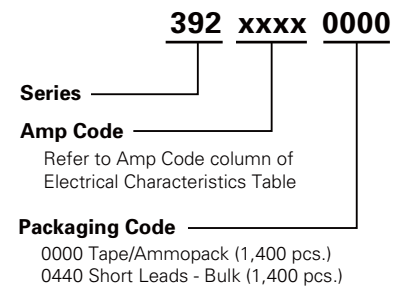
\* Internal test conditions from thermal cycling at 125°C

### Dimensions



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

### Part Numbering System



### Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Taping Width
<b>392 Series</b>				
Tape & Ampopack	N/A	1,400	0000	N/A
Short Leads	N/A	1,400	0440	N/A

