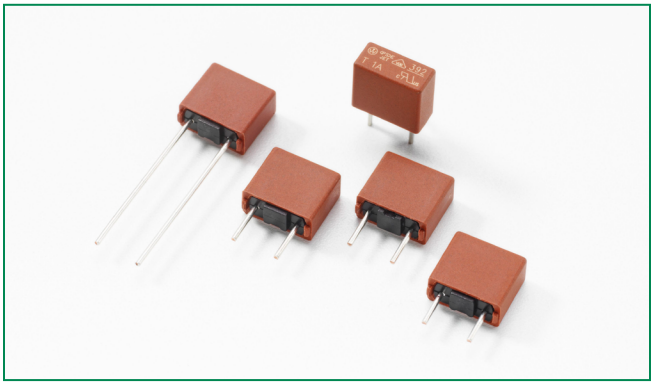
392 Series, TE5® Time-Lag Fuse



Description

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

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

Applications

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

Additional Information

Datasheet | **Resources** | **Samples**

Agency Approvals

Agency	Agency File Number	Ampere Range
VDE	126983	800mA - 6.3A
	1010251 1026673	800mA - 4A 5A - 6.3A
cULus	E67006	800mA - 6.3A
PSE JET	JET1896-31007-2002	1A - 5A
CQC	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, **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.**

Electrical Characteristic Specifications by Item

Rated Current	Amp Code	Voltage Rating	Breaking Capacity	Voltage Drop $1.0 \times I_N$ max. (mV)	Power Dissipation $1.5 \times I_N$ max. (mW)	Melting Integral $10 \times I_N$ min. (A^2s)	Agency Approvals					
							VDE		cULus	PSE JET	CQC	
225 mA	0225	250V	50A/250 VAC	214	145	0.443						
800 mA	0800	250V	25A/250 VAC	110	280	3.80	x	x	x		x	x
1.00 A	1100	250V	25A/250 VAC	115	400	5.80	x	x	x	x	x	x
1.25 A	1125	250V	25A/250 VAC	100	500	9.75	x	x	x	x	x	x
1.60 A	1160	250V	25A/250 VAC	95	600	13.50	x	x	x	x	x	x
2.00 A	1200	250V	25A/250 VAC	90	700	21.00	x	x	x	x	x	x
2.50 A	1250	250V	25A/250 VAC	85	750	32.00	x	x	x	x	x	x
3.15 A	1315	250V	32A/250 VAC	80	1100	55.00	x	x	x	x	x	x
4.00 A	1400	250V	40A/250 VAC	75	1200	100.00	x	x	x	x	x	x
5.00 A	1500	250V	50A/250 VAC	70	1000	90.00	x	x	x	x	x	x
6.30 A	1630	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.

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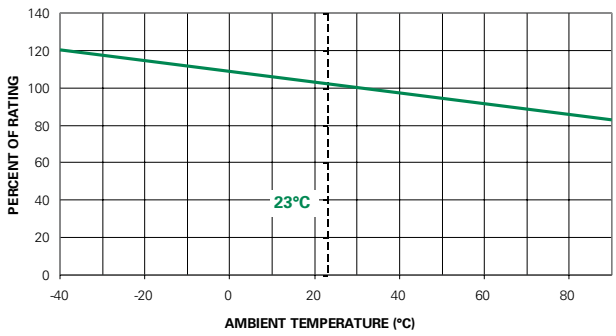
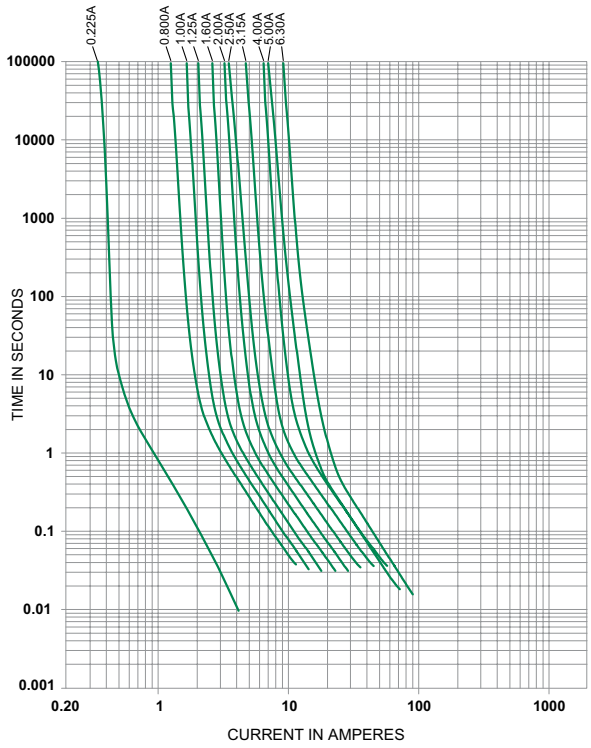
Radial Lead Fuses

TE5® > Time-Lag > 392 Series

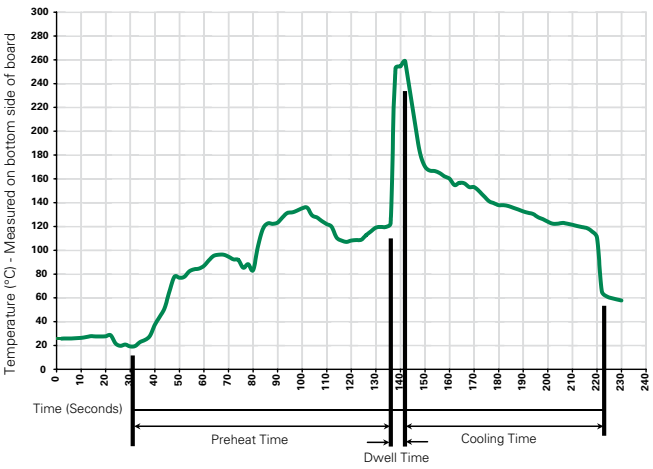
Temperature Rerating Curve



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.

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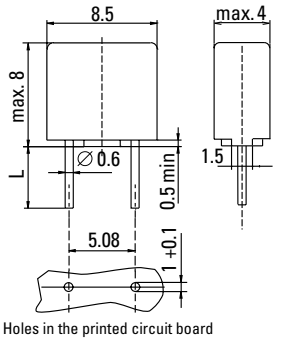
Product Characteristics

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 de-rating)
Climatic Category	–40°C to +85°C/21 days (EN 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 (EN 60068-2-6) 10–60 Hz at 0.75 mm amplitude 60–2000 Hz at 10 g acceleration

Dimensions



Holes in the printed circuit board

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

Part Numbering System

392 xxxx 0000

Series

Amp Code
Refer to Amp Code column of Electrical Characteristics Table

Packaging Code
0000 Tape/Ammopack (1,400 pcs.)
0440 Short Leads - Bulk (1,400 pcs.)

Packaging

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

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