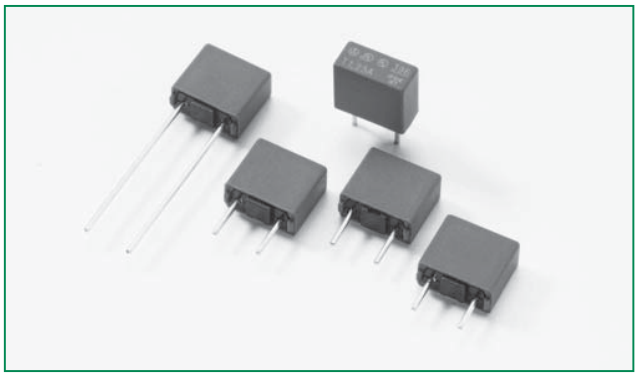
396 Series, TE5®, Time-Lag Fuse



Description

The 396 Series are TE5®, time-Lag type, 125V rated, fuses, designed in accordance to UL 248-14.

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
- Available from 50mA to 6.3A

Applications

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

Agency Approvals

Agency	Agency File Number	Ampere Range
UL	File number: E 67006	50mA - 6.3A
cUL	File number: E 67006	50mA - 6.3A
JET	JET1896-31007-1002	1A - 5A

Electrical Characteristics

% of Ampere Rating	Opening Time
200%	60 Seconds, **Max.**

Electrical Characteristics

Amp Code	Rated Current	Voltage Rating	Breaking Capacity	Voltage Drop 1.0 x I_N max. (mV)	Power Dissipation 1.0 x I_N max. (mW)	Melting Integral 10 x I_N min. (A^2s)	Agency Approvals		
							UL	cUL	JET
0050	50mA	125V	100A / 125 VAC 50-60 Hz cos φ = 1.0	900	45	0.0056	x	x	
0063	63mA	125V		800	50	0.009	x	x	
0080	80mA	125V		700	55	0.014	x	x	
0100	100mA	125V		600	60	0.025	x	x	
0125	125mA	125V		550	70	0.044	x	x	
0160	160mA	125V		480	80	0.058	x	x	
0200	200mA	125V		390	80	0.1	x	x	
0250	250mA	125V		350	90	0.17	x	x	
0315	315mA	125V		300	95	0.26	x	x	
0400	400mA	125V		250	100	0.32	x	x	
0500	500mA	125V		220	110	0.58	x	x	
0630	630mA	125V		210	135	0.75	x	x	
0800	800mA	125V		160	130	0.98	x	x	
1100	1.00A	125V		155	155	2.2	x	x	x
1125	1.25A	125V		145	185	3.8	x	x	x
1160	1.60A	125V		130	210	5.2	x	x	x
1200	2.00A	125V		125	250	7.5	x	x	x
1250	2.50A	125V		120	300	14	x	x	x
1315	3.15A	125V		110	350	22	x	x	x
1400	4.00A	125V		110	400	27	x	x	x
1500	5.00A	125V		95	475	59	x	x	x
1630	6.30A	125V		95	570	100	x	x	

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

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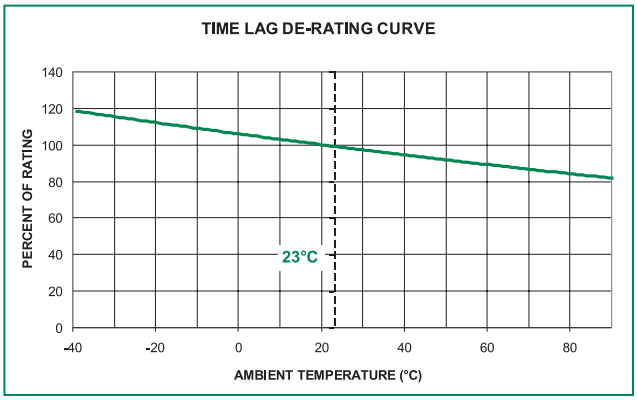
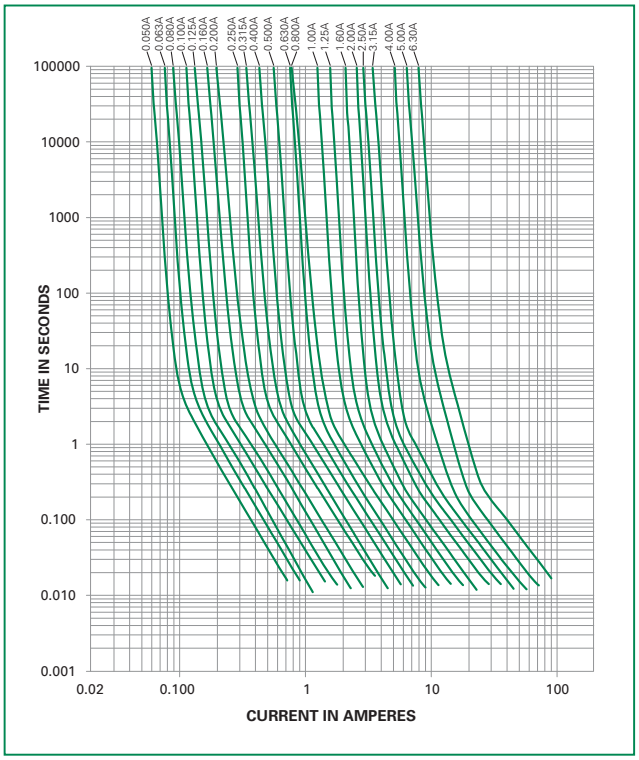
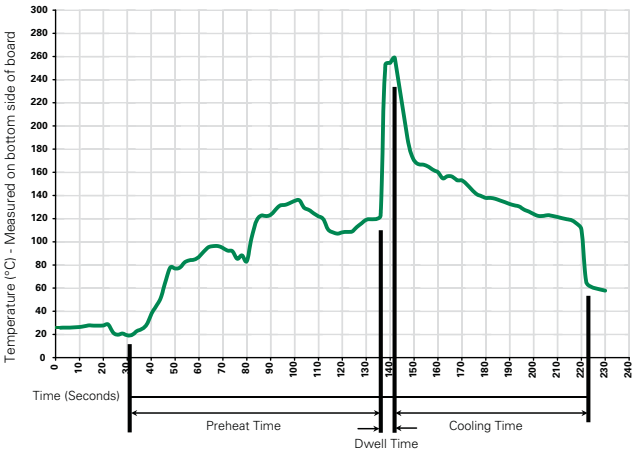
Temperature Rerating Curve



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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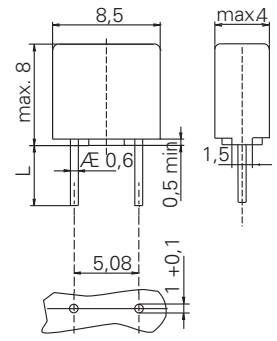
Product Characteristics

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, ≤ 3s. (Wave) 350°C, ≤ 1s. (Soldering Iron)
Soldering Heat Resistance	260°C, 10s. (IEC 60068-2-20) 350°C, 3s. (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 Conditions	+10 °C to +60 °C RH ≤ 75% yearly average, without dew, maximum value for 30 days-95%
Vibration Resistance	24 cycles at 15 min. each (IEC 60068-2-6) 10 - 60 Hz at 0.75 mm amplitude 60 - 2000 Hz at 10 g acceleration

Dimensions



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

Part Numbering System

396 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.)

396 Series

Packaging

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

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