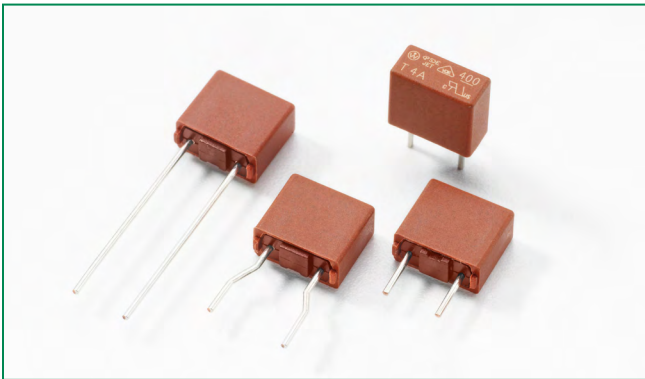


### 400 Series, TE5®, Time-Lag Fuse



#### Description

The 400 Series is a TE5®, Time-Lag type subminiature fuse designed for overcurrent protection. It is 250V rated and designed in accordance to IEC 60127-3.

#### Features

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

#### Applications

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

#### Additional Information



Datasheet








Resources



Samples






#### Agency Approvals

Agency	Agency File Number	Ampere Range
	E67006	800mA – 6.3A
	JET1896-31007-2001 JET1896-31007-1003	1A – 5A 6.3A
	DE1-40597	500mA – 6.3A
	CQC09012031624	500mA – 6.3A
	SUS05024-9004	500mA – 800mA
	SUS05024-9003	1A – 2.5A
	SUS05024-9001	3.15A
	SUS05024-10003	4A – 5A
	SUS05024-9002	6.3A

#### Electrical Characteristics

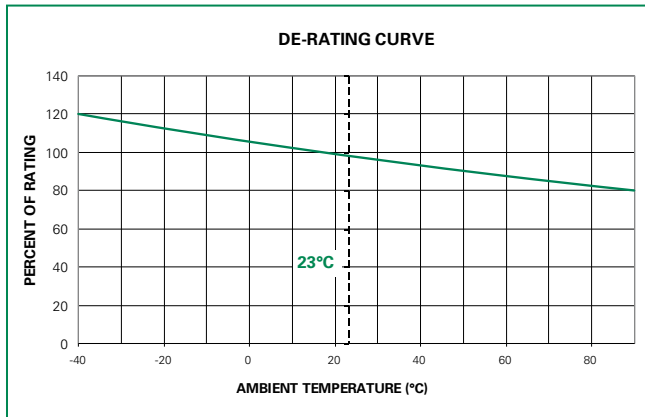
% of Ampere Rating	Opening Time
150%	1 Hour, Minimum
210%	120 Secs., Maximum
275%	400 ms, Minimum; 10 Secs., Maximum
400%	150 ms, Minimum; 3 Secs., Maximum
1000%	20 ms, Minimum; 150 ms, Maximum

#### Electrical Characteristics

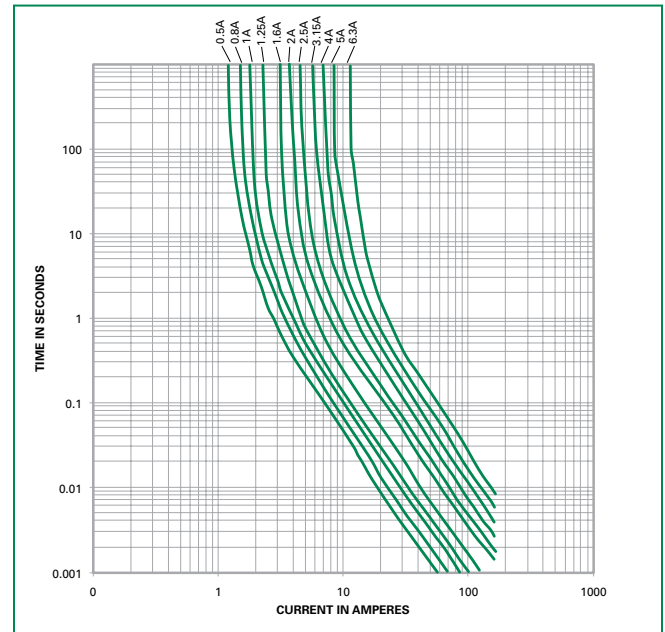
Amp Code	Rated Current	Rated Voltage	Breaking Capacity	Voltage Drop 1.0×I <sub>N</sub> max. (mV)	Power Dissipation 1.0×I <sub>N</sub> max. (mW)	Melting Integral 10×I <sub>N</sub> max. (A <sup>2</sup> s)	Agency Approvals				
											
0500	500mA	250V	130A/250VAC* 50-60 Hz cosφ = 1.0	165	297	2.17	x		x	x	x
0800	800mA	250V		116	387	6.72	x		x	x	x
1100	1.00A	250V		89	432	9.63	x	x	x	x	x
1125	1.25A	250V		76	411	14.44	x	x	x	x	x
1160	1.60A	250V		76	601	21.75	x	x	x	x	x
1200	2.00A	250V		75	758	32.16	x	x	x	x	x
1250	2.50A	250V		61	683	61.94	x	x	x	x	x
1315	3.15A	250V		55	921	101.61	x	x	x	x	x
1400	4.00A	250V		65	936	133.40	x	x	x	x	x
1500	5.00A	250V		56	948	216.50	x	x	x	x	x
1630	6.30A	250V		48	926	318.71	x	x	x	x	x

\* Per VDE, approved breaking capacity is at 100A, 250VAC

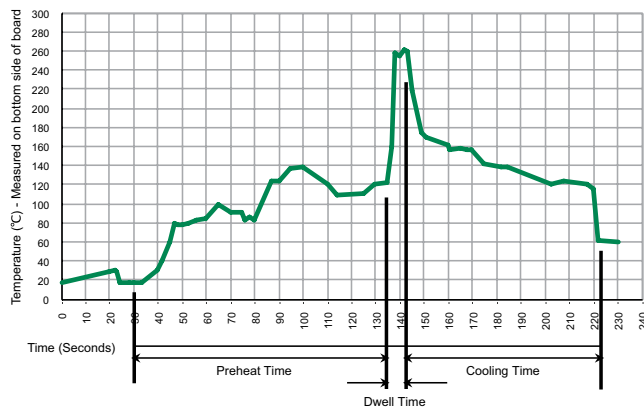
## Temperature Derating Curve



## 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.

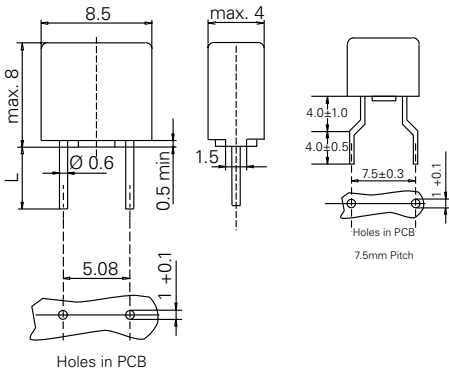
**Note: These devices are not recommended for IR or Convection Reflow process.**

## Product Characteristics

<b>Materials</b>	Base/Cap: Brown Thermoplastic Polyamide, 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, ≤ 3s. (Wave) 350°C, ≤ 1s. (Soldering Iron)
<b>Soldering Heat Resistance</b>	260°C, 10s. (IEC 60068-2-20) 350°C, 3s. (Soldering Iron)

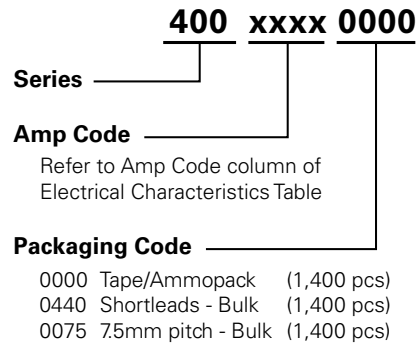
<b>Operating Temperature</b>	-40°C to +85°C (consider derating)
<b>Climatic Category</b>	-40°C to +85°C/21 days (EN 60068-1, -2-1, -2-2, -2-78)
<b>Stock Conditions</b>	+10°C to +60°C relative humidity 75% yearly average, without dew, maximum value for 30 days - 95%
<b>Vibration Resistance</b>	24 cycles at 15 min. each (EN60028-2-6) 10-60 Hz at 0.75 mm amplitude 20-2000 Hz at 10 g acceleration

## Dimensions



Long Leads (L=18.8±0.3mm)  
Short Leads (L=4.3±0.3mm)

## Part Numbering System



## Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Taping Width
<b>400 Series</b>				
Tape & Ammopack	N/A	1,400	0000	N/A
Short Leads	N/A	1,400	0440	N/A
7.5 mm Pitch	N/A	1,400	0075	N/A

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