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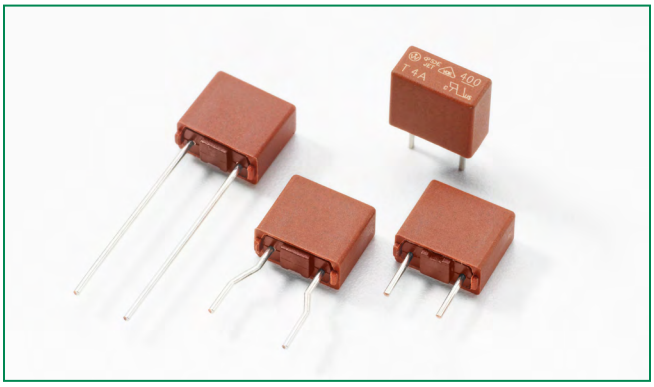
400 Series, TE5®, Time-Lag Fuse



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
c UL us	E67006	800mA – 6.3A
PS E JET	JET1896-31007-2001 JET1896-31007-1003	1A – 5A 6.3A
VDE	DE1-40597	500mA – 6.3A
CQC	CQC09012031624	500mA – 6.3A
KC	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

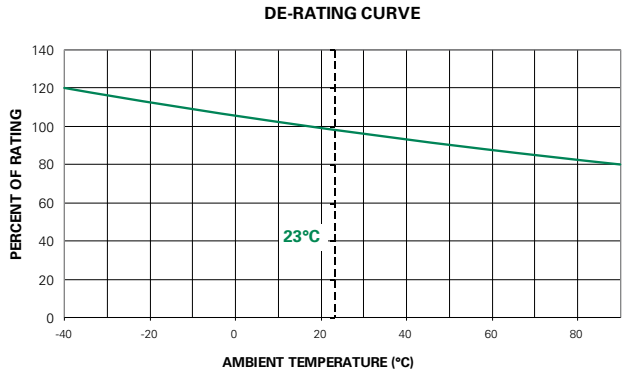
Electrical Characteristics

Amp Code	Rated Current	Rated Voltage	Breaking Capacity	Voltage Drop $1.0 \times I_N$ max. (mV)	Power Dissipation $1.0 \times I_N$ max. (mW)	Melting Integral $10 \times I_N$ max. (A^2s)	Agency Approvals				
							c UL us	PS E JET	VDE	CQC	KC
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

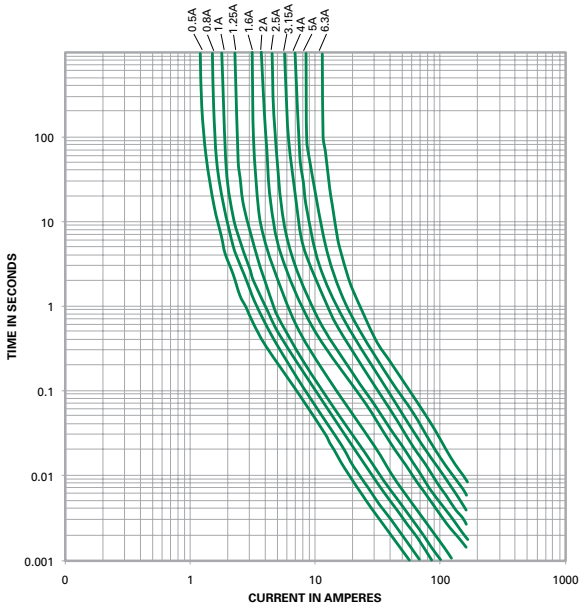
* Per VDE, approved breaking capacity is at 100A, 250VAC

Revised: 05/14/14

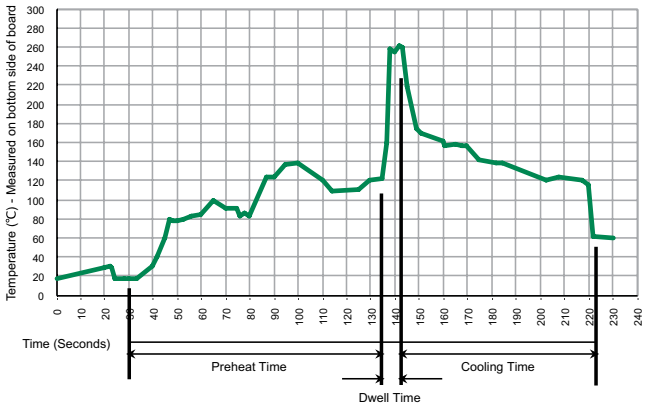
Temperature Rerating Curve



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.

Revised: 05/14/14

Radial Lead Fuses

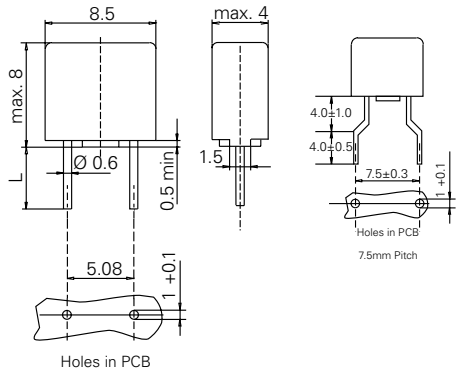
TE5® > Time-Lag > 400 Series

Product Characteristics

Materials	Base/Cap: Brown Thermoplastic Polyamide, 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 derating)
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 relative humidity 75% yearly average, without dew, maximum value for 30 days – 95%
Vibration Resistance	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

400 xxxx 0000

Series

Amp Code

Refer to Amp Code column of Electrical Characteristics Table

Packaging Code

0000 Tape/Ammopack (1,400 pcs)
0440 Shortleads - Bulk (1,400 pcs)
0075 7.5mm pitch - Bulk (1,400 pcs)

Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Taping Width
400 Series				
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

Revised: 05/14/14