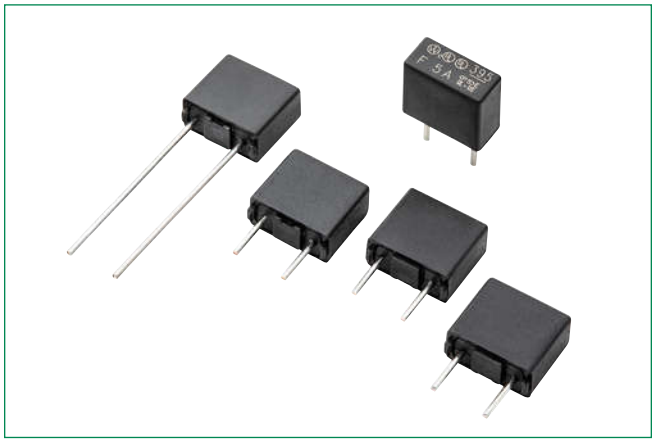
395 Series
TE5® Fast-Acting Fuse



Description

The 395 Series TE5® Fuses are fast-acting type, 125 V and are designed in accordance to UL 248-14.

Features & Benefits

- RoHS-compliant, Lead-free and Halogen-free
- Reduced PCB space requirements
- Direct solderable or plug-in versions
- Low internal resistance
- Shock safe casing
- Vibration resistant
- Available from 0.05 A to 6.3 A
- Listed to UL/CSA/NMX 248-1 and UL/CSA/NMX 248-14
- Conforms to DENAN's Appendix 3 for the Japanese Market

Additional Information

Resources | Accessories | Samples

Applications

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

Agency Approvals

Agency	Agency File/Cerificate Number	Ampere Range
c UL	E67006	0.05 A - 6.3 A
UL	E67006	0.05 A - 6.3 A
PS E	NBK010721-JP1021	1 A - 5 A
CE	NA	0.05 A - 6.3 A
UK CA	NA	0.05 A - 6.3 A

Electrical Characteristics

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

Electrical Characteristics

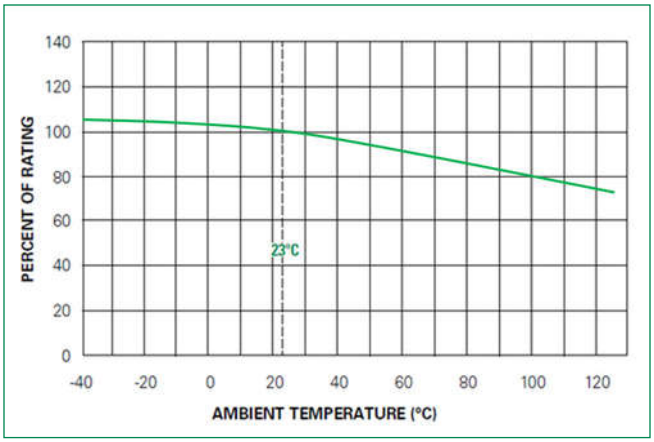
Amp Code	Rated Current	Voltage Rating	Breaking Capacity	Nominal Cold Resistance (Ohms)	Voltage Drop 1.0xI_N max. (mV)	Power Dissipation 1.0xI_N max. (mW)	Melting Integral 10xI_N max. (A^2s)	Agency Approvals				
								CE	UK CA	c UL	UL	PS E
0050	50mA	125V	100A @125 VAC	8.1290	1600	85	0.0001	x	x	x	x	-
0063	63mA	125V		4.6900	1300	85	0.0001	x	x	x	x	-
0080	80mA	125V		3.6500	1200	100	0.0002	x	x	x	x	-
0100	100mA	125V		7.4910	1100	110	0.0013	x	x	x	x	-
0125	125mA	125V		6.1970	1350	160	0.0019	x	x	x	x	-
0160	160mA	125V		4.2850	1000	150	0.0037	x	x	x	x	-
0200	200mA	125V		2.9780	950	210	0.0075	x	x	x	x	-
0250	250mA	125V		2.3100	900	225	0.0130	x	x	x	x	-
0315	315mA	125V		1.7220	800	255	0.0260	x	x	x	x	-
0400	400mA	125V		0.2200	230	95	0.0150	x	x	x	x	-
0500	500mA	125V		0.1570	220	110	0.0250	x	x	x	x	-
0630	630mA	125V		0.1180	210	135	0.0450	x	x	x	x	-
0800	800mA	125V		0.0970	200	160	0.0680	x	x	x	x	-
1100	1.00A	125V		0.0710	190	190	0.1300	x	x	x	x	x
1125	1.25A	125V		0.0635	180	225	0.2000	x	x	x	x	x
1160	1.60A	125V		0.0492	170	275	0.3900	x	x	x	x	x
1200	2.00A	125V		0.0412	160	450	0.5300	x	x	x	x	x
1250	2.50A	125V		0.0305	150	375	1.1000	x	x	x	x	x
1315	3.15A	125V		0.0247	140	445	1.9000	x	x	x	x	x
1400	4.00A	125V		0.0193	130	520	3.2000	x	x	x	x	x
1500	5.00A	125V		0.0139	120	600	6.1000	x	x	x	x	x
1630	6.30A	125V		0.0116	115	850	9.7000	x	x	x	x	-

Notes:
1. 1.00 means the number one with two decimal places. 1,000 means the number one thousand.
2. Resistance is measured at 10% of rated current, 25°C.

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Revised: GD. 07/03/23

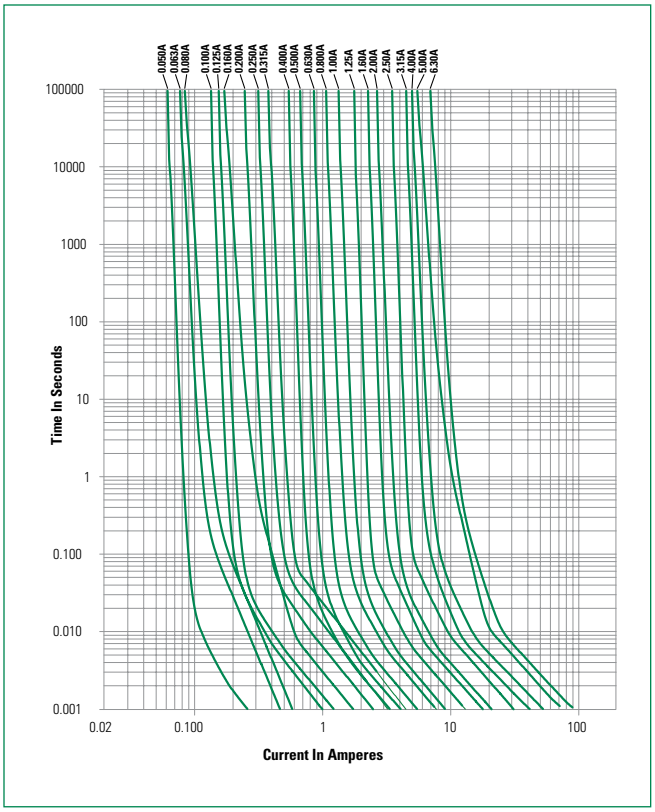
395 Series
TE5® Fast-Acting Fuse

Temperature Re-rating Curve

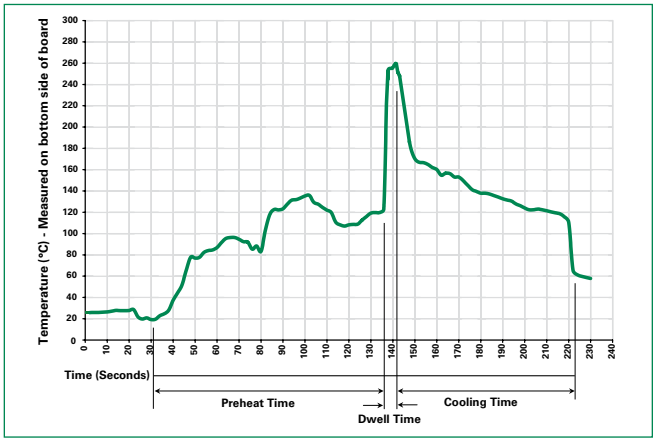


Note:
1. Rerating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

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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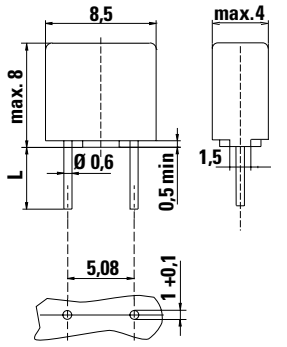
395 Series
TE5® Fast-Acting Fuse

Product Characteristics

Materials	Base/Cap: 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 +125°C (Consider re-rating)
Climatic Category	-40°C to +85°C/21 days (IEC 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 - 60Hz at 0.75mm amplitude 60 - 2000Hz at 10g acceleration

Dimensions (mm)



Holes in PCB

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

Part Numbering System

395 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
		395 Series		
Tape and Ammopack	N/A	1,400	0000	N/A
Short Leads	N/A	1,400	0440	N/A

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