

# **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

### **Electrical Characteristics**

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

# **Agency Approvals**

Agency	Agency File/Certificate Number	Ampere Range
c (ÚL)	E67006	0.05 A - 6.3 A
(II)	E67006	0.05 A - 6.3 A
PS	NBK010721-JP1021	1 A - 5 A

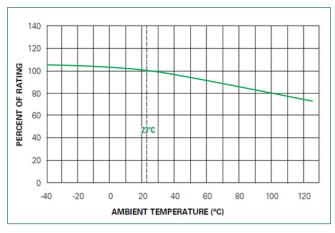
### **Electrical Characteristics**

Amp Rated Voltage		Breaking	Nominal Cold	Voltage	Power Dissipation	Melting Integral	Agency Approvals			
Code	Current	Rating	Capacity	Resistance (Ohms)	Drop 1.0×I <sub>N</sub> max. (mV)	1.0×I <sub>N</sub> max. (mW)	10×I <sub>N</sub> max. (A²s)	, (JL)	(I)	⟨PS⟩
0050	50mA	125V		8.1290	1600	85	0.0001	Х	Х	-
0063	63mA	125V		4.6900	1300	85	0.0001	Х	X	-
0080	80mA	125V		3.6500	1200	100	0.0002	Х	X	-
0100	100mA	125V		7.4910	1100	110	0.0013	X	Χ	-
0125	125mA	125V		6.1970	1350	160	0.0019	Χ	Χ	-
0160	160mA	125V		4.2850	1000	150	0.0037	X	Χ	-
0200	200mA	125V		2.9780	950	210	0.0075	X	Χ	-
0250	250mA	125V		2.3100	900	225	0.0130	X	Χ	-
0315	315mA	125V		1.7220	800	255	0.0260	Χ	Χ	-
0400	400mA	125V		0.2200	230	95	0.0150	X	X	-
0500	500mA	125V	100A	0.1570	220	110	0.0250	X	Χ	-
0630	630mA	125V	@125 VAC	0.1180	210	135	0.0450	X	Х	-
0800	800mA	125V		0.0970	200	160	0.0680	X	Χ	-
1100	1.00A	125V		0.0710	190	190	0.1300	Χ	Χ	X
1125	1.25A	125V		0.0635	180	225	0.2000	Χ	Χ	X
1160	1.60A	125V		0.0492	170	275	0.3900	Χ	Χ	X
1200	2.00A	125V		0.0412	160	450	0.5300	X	Χ	X
1250	2.50A	125V		0.0305	150	375	1.1000	X	X	X
1315	3.15A	125V		0.0247	140	445	1.9000	X	X	X
1400	4.00A	125V		0.0193	130	520	3.2000	X	X	X
1500	5.00A	125V		0.0139	120	600	6.1000	X	X	X
1630	6.30A	125V		0.0116	115	850	9.7000	Х	Х	-

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



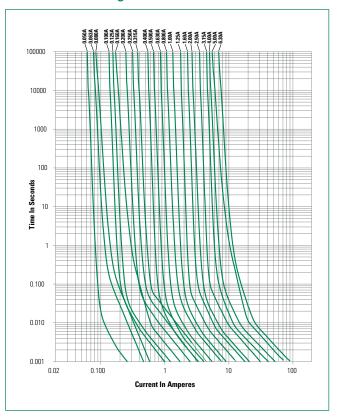
# **Temperature Re-rating Curve**



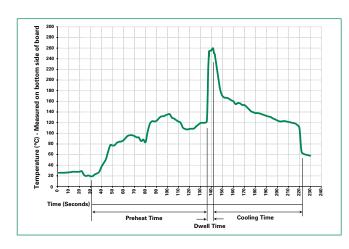
Note:

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.

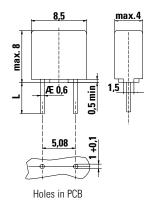


### **Product Characteristics**

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)

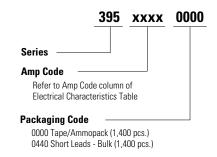
Operating Temperature	-40°C to +125°C (Consider re-rating)
Climatic Category	-40°C to +85°C/21 days (IEC 60068-1,-2-1,-2-2,-2-78)
Stock Conditions	+10°C to +60°C RH $\leq$ 75% yearly average, without dew, maximum value for 30 days-95%
Vibration Resistance	24 cycles at 15 min. each (IEC 60068-2-6) 10 - 60Hz at 0.75mm amplitude 60 - 2000Hz at 10g acceleration

### **Dimensions (mm)**



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

### **Part Numbering System**



### **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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