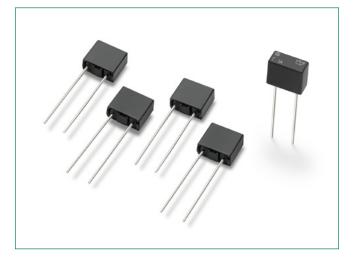
Littelfuse Expertise Applied | Answers Delivered

397 Series, TE5 Transient Tolerant Fuse



Description

The 397 Series TE5 Fuses are SLO BLO® type, 125V rated and designed in accordance to UL248-14.

Features

- Surge Proof for telecom applications
- Reduced PCB space requirements
- Direct solderable or plug-in versions
- Shock safe casing

• Battery chargers

Applications

- Vibration resistant
- Lead-free, Halogen free and RoHS compliant

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- Available from 0.35A to 1.5A
- Listed to UL/CSA/NMX 248-1 and UL/CSA/NMX 248-14

Agency Approvals					
Agency	Agency File Number	Ampere Range			
ر ال اً	E67006	0.35A - 1.5A			

Electrical Characteristics				
% of Ampere Rating	OpeningTime			
200%	60 Seconds, Min.			
570%	80 ms. Min. ; 2 Sec. Max.			
1700%	200 s., Max.			

Electrical Characteristics

Amp Rated Voltag Code Current Ratin	Patad	Voltana	e Breaking	Nominal Cold	Voltage Drop	Power Dissipation	Melting Integral	Surge Amplitude (A) ¹			Agency Approvals
	Rating		ColumnDropResistance1.0×I_N max.(Ohms)(mV)	1.0×I _N max. (mW)	10×I _N min. (A²s)	FCC	Bellcore	E	۲ پال		
0350	350 mA	125 V	50A@125 VAC	0.5665	400	140	0.60	25	15	29	х
0500	500 mA	125 V		0.3424	340	170	1.10	30	17	38	х
0800	800 mA	125 V		0.1616	300	240	3.26	60	31	50	х
1100	1.00 A	125 V		0.1000	240	240	4.85	78	40	65	х
1125	1.25 A	125 V		0.0716	200	250	7.34	100	50	67	х
1150	1.50 A	125 V		0.0522	190	285	10.91	155	78	67	х

Notes:

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

B. Resistance is measured at 10% of rated current, 25°C.

 I. FCC 47 Part 68:
 Minimum pulse load quantity is 2 pulses at a test generator output of 800 V and 10x560µs waveform.

 ITU-T K.20:
 Minimum pulse load quantity is 30 pulses at a test generator output of 1000 V, 67 A and 10x700µs waveform.

Bellcore GR-1089: Minimum pulse load quantity is 50 pulses at a test generator output of 1000 V and 10x1000µs.

- Power supplies
- Industrial controllers
- Additional Information

Consumer ElectronicsTelecom Applications

J.

Datasheet





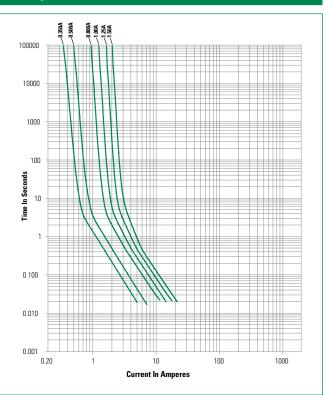
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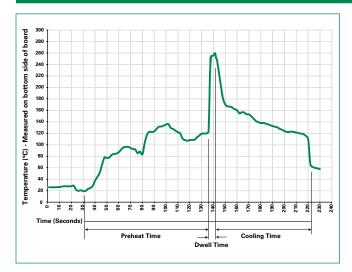
Temperature Re-rating Curve 140 120 PERCENT OF RATING 100 80 60 40 23°C 20 0 -40 -20 0 20 40 60 80 AMBIENT TEMPERATURE (°C)

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.

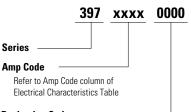


Product Characteristics			
	Base/Cap: Thermoplastic		
Materials	Polyamide PA		

Materials	Polyamide PA 6.6, UL 94V-0 Round Pins: Copper, Tin-plated		
Lead Pull Strength	10 N (IEC 60068-2-21)		
Solderability	260°C, \leq 3s. (Wave) 350°C, \leq 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 de-rating)		
Climatic Category	-40°C to +85°C/21 days (IEC 60068-1,-2-1,-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 (EN 60068-2-6) 10 - 60Hz at 0.75mm amplitude 60 - 2000Hz at 10g acceleration		

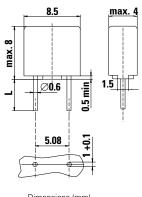
Part Numbering System



Packaging Code

0000 Tape/Ammopack (1,400 pcs.) 0440 Short Leads - Bulk (1,400 pcs.)

Dimensions



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

Packaging

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

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