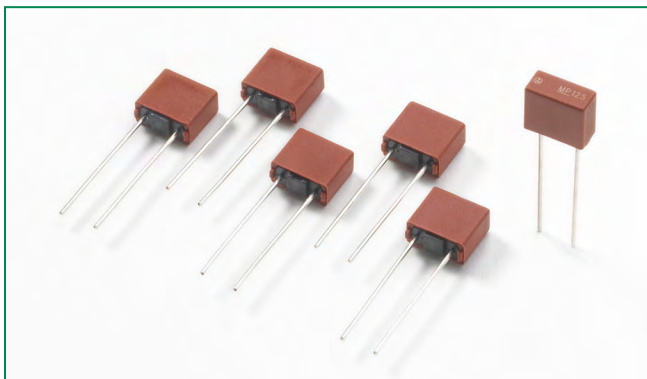


398 Series, TE5® Modul Protector® Fuse



Description

The 398 Series TE5® Fuses are short circuit protectors, medium Time-Lag type, and 65V rated.

Features

- Reduced PCB space requirements
- Highly defined cut-off times
- Low internal resistance
- Flame resistant encapsulated casing
- Available from 0.125A to 4A
- Halogen free, Lead-free and RoHS compliant

Agency Approvals

Agency	Agency File Number	Ampere Range
	E67006	0.125A - 4A

Additional Information



Datasheet



Resources



Samples

Applications

- Microprocessor protection

Electrical Characteristics

% of Ampere Rating	Opening Time
300	10 Seconds, Max.

Electrical Characteristics

Amp Code	Rated Current	Marking Code*	Voltage Rating	Breaking Capacity	Nominal Cold Resistance (Ohms)	Cold Resistance 0.1xI _N typ. (mΩ)	Power Dissipation 1.0xI _N max. (mW)	Melting Integral 10xI _N max. (A²s)	Agency Approvals
0125	125mA	MP13	65V	50A@65 VAC/DC	0.9610	900	50	0.036	
0250	250mA	MP25	65V		0.3540	355	50	0.063	
0315	315mA	MP32	65V		0.2600	261	60	0.08	
0400	400mA	MP40	65V		0.1860	186	75	0.18	
0500	500mA	MP50	65V		0.1540	155	90	0.33	
0630	630mA	MP63	65V		0.1150	115	120	0.48	
0800	800mA	MP80	65V		0.0850	85	140	1.02	
1100	1.00A	MP100	65V		0.0640	65	170	1.10	
1125	1.25A	MP125	65V		0.0480	48	210	2.34	
1160	1.60A	MP160	65V		0.0340	34	320	4.66	
1200	2.00A	MP200	65V		0.0260	26	425	8.40	
1250	2.50A	MP250	65V		0.0210	21	550	14.81	
1315	3.15A	MP315	65V		0.0155	16	650	29.27	
1400	4.00A	MP400	65V		0.0120	12	1000	41.12	

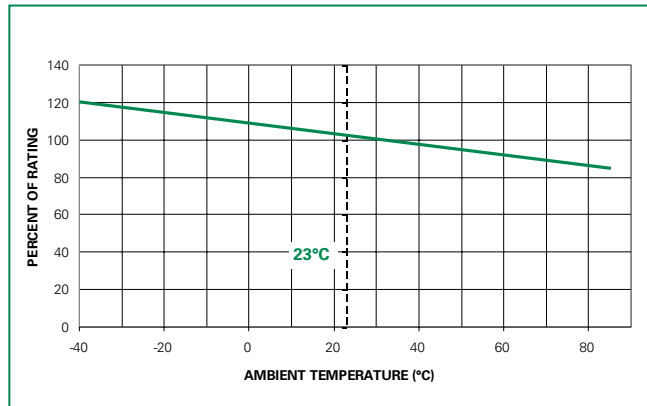
* Physical Marking on top of the device

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.

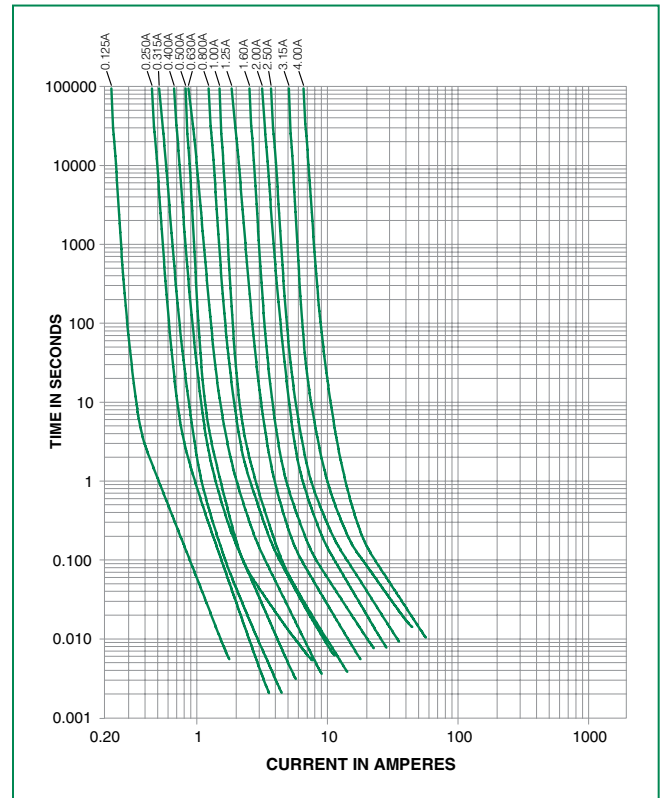
Temperature Re-rating Curve



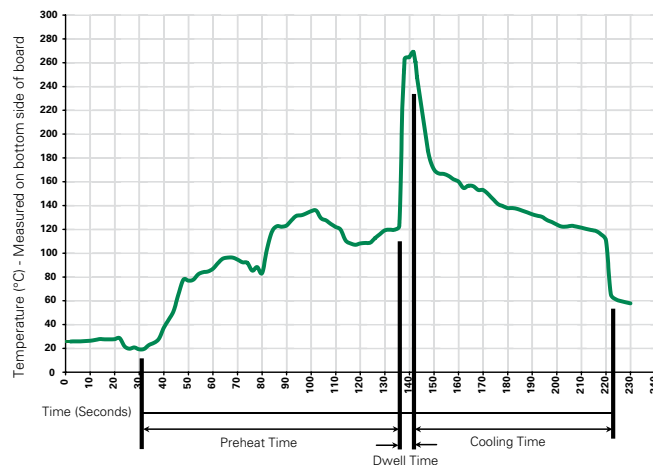
Note:

1. Re-rating 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.

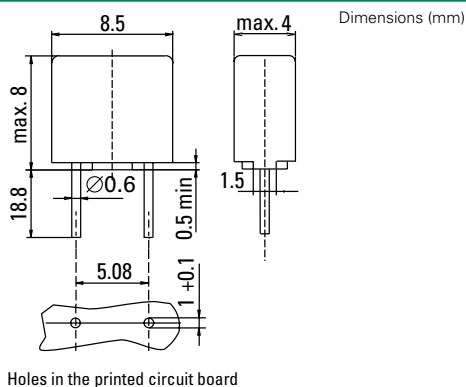
Note: These devices are not recommended for IR or Convection Reflow process.

Product Characteristics

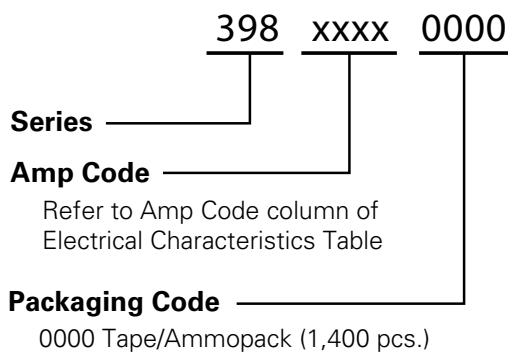
Materials	Base/Cap: Brown Thermoplastic Polyamide PA 6.6, UL 94V-0 Round Pins: Copper, Tin-plated
Lead Pull Strength	10N (EN 60068-2-21)
Solderability	260°C, ≤ 3s. (Wave) 350°C, ≤ 1s. (Soldering Iron)
Soldering Heat Resistance	260°C, 10s. (IEC 60068-2-20) 350°C, 3s. (Soldering Iron)

Operating Temperature	-40°C to +85°C (Consider re-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, ≤ 75% yearly average, without dew, maximum value for 30 days-95%
Vibration Resistance	24 cycles at 15 min. each (IEC 60068-6) 10 - 60Hz at 0.75mm amplitude 60 - 2000Hz at 10g acceleration

Dimensions



Part Numbering System



Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Reel Size
398 Series				
Tape & Ammopack	N/A	1,400	0000	N/A

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