



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

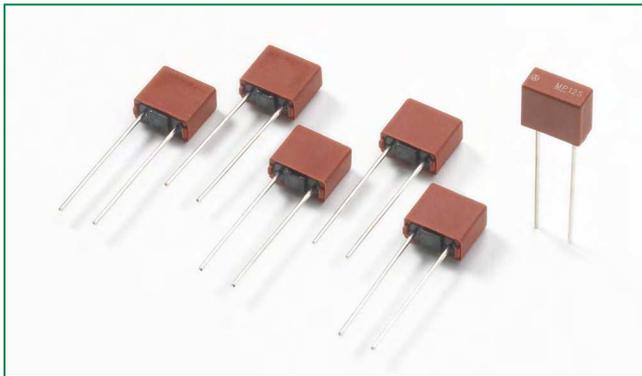
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## 398 Series, TE5® Modul Protector® Fuse



### 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

### Applications

- Microprocessor protection

### Agency Approvals

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

### Additional Information



Datasheet



Resources



Samples

### Electrical Characteristics

% of Ampere Rating	Opening Time
300	10 Seconds, <b>Max.</b>

### Electrical Characteristics

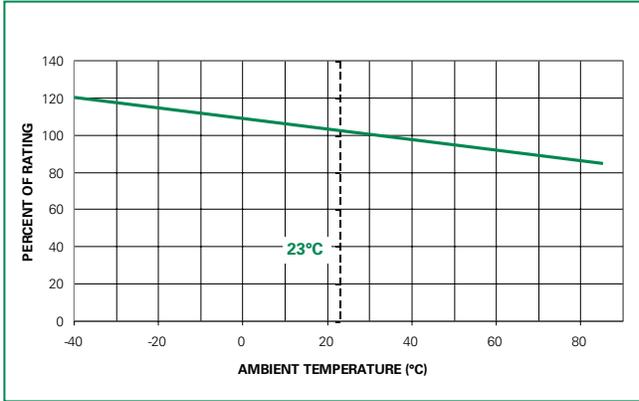
Amp Code	Rated Current	Marking Code*	Voltage Rating	Breaking Capacity	Nominal Cold Resistance (Ohms)	Cold Resistance 0.1xI <sub>N</sub> typ. (mΩ)	Power Dissipation 1.0xI <sub>N</sub> max. (mW)	Melting Integral 10xI <sub>N</sub> max. (A <sup>2</sup> s)	Agency Approvals 
0125	125mA	MP13	65V	50A@65 VAC/DC	0.9610	900	50	0.036	x
0250	250mA	MP25	65V		0.3540	355	50	0.063	x
0315	315mA	MP32	65V		0.2600	261	60	0.08	x
0400	400mA	MP40	65V		0.1860	186	75	0.18	x
0500	500mA	MP50	65V		0.1540	155	90	0.33	x
0630	630mA	MP63	65V		0.1150	115	120	0.48	x
0800	800mA	MP80	65V		0.0850	85	140	1.02	x
1100	1.00A	MP100	65V		0.0640	65	170	1.10	x
1125	1.25A	MP125	65V		0.0480	48	210	2.34	x
1160	1.60A	MP160	65V		0.0340	34	320	4.66	x
1200	2.00A	MP200	65V		0.0260	26	425	8.40	x
1250	2.50A	MP250	65V		0.0210	21	550	14.81	x
1315	3.15A	MP315	65V		0.0155	16	650	29.27	x
1400	4.00A	MP400	65V		0.0120	12	1000	41.12	x

\* Physical Marking on top of the device

Notes:

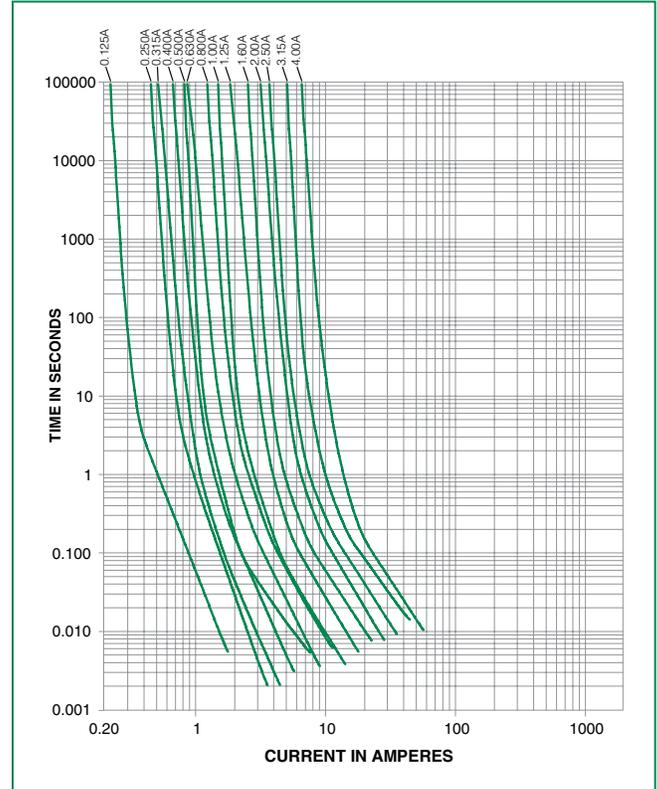
- 1) 1.00 means the number one with two decimal places. 1,000 means the number one thousand.
- 2) Resistance is measured at 10% of rated current, 25°C.

### Temperature Re-rating Curve

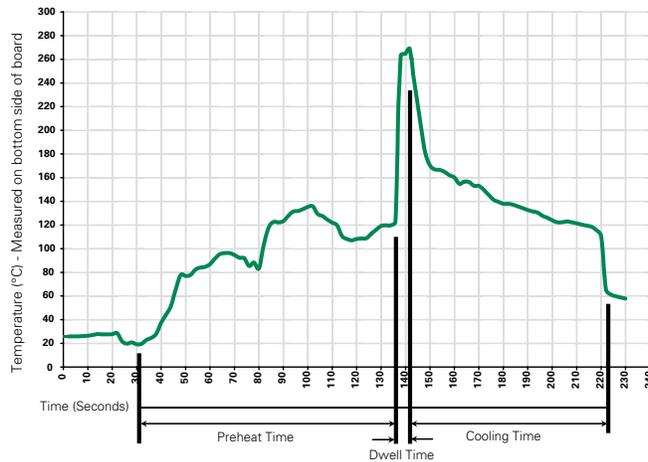


Note:  
1. Rerating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

### Average Time Current Curves



### Soldering Parameters - Wave Soldering



### Recommended Process Parameters:

Wave Parameter	Lead-Free Recommendation
<b>Preheat:</b> (Depends on Flux Activation Temperature)	(Typical Industry Recommendation)
Temperature Minimum:	100°C
Temperature Maximum:	150°C
Preheat Time:	60-180 seconds
<b>Solder Pot Temperature:</b>	260°C Maximum
<b>Solder Dwell Time:</b>	2-5 seconds

### Recommended Hand-Solder Parameters:

Solder Iron Temperature: 350°C +/- 5°C  
Heating Time: 5 seconds max.

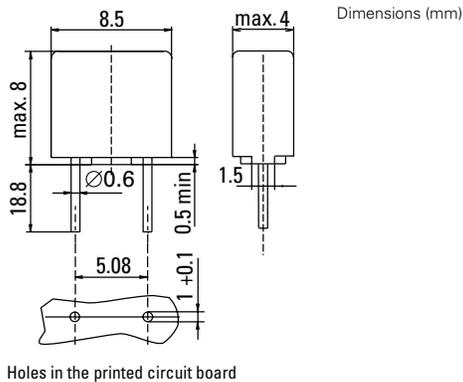
**Note:** These devices are not recommended for IR or Convection Reflow process.

## Product Characteristics

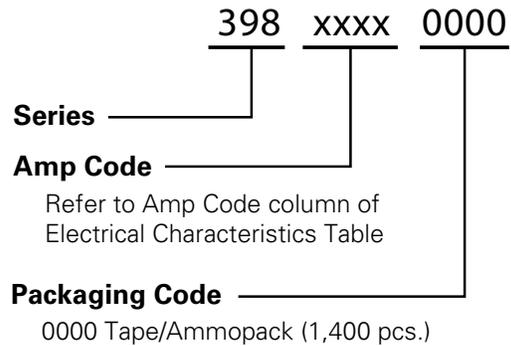
<b>Materials</b>	Base/Cap: Brown Thermoplastic Polyamide PA 6.6, UL 94V-0 Round Pins: Copper, Tin-plated
<b>Lead Pull Strength</b>	10N (EN 60068-2-21)
<b>Solderability</b>	260°C, ≤ 3s. (Wave) 350°C, ≤ 1s. (Soldering Iron)
<b>Soldering Heat Resistance</b>	260°C, 10s. (IEC 60068-2-20) 350°C, 3s. (Soldering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

<b>Operating Temperature</b>	-40°C to +85°C (Consider re-rating)
<b>Climatic Category</b>	-40°C to +85°C/21 days (IEC 60068-1,-2-1,-2-2,-78)
<b>Stock Conditions</b>	+10°C to +60°C RH, ≤ 75% yearly average, without dew, maximum value for 30 days-95%
<b>Vibration Resistance</b>	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
<b>398 Series</b>				
Tape & Ammopack	N/A	1,400	0000	N/A