

# Type TMP

## Time-Lag Subminiature Fuses Series



### Description

TMP Time-lag type 250V/300V rated designed in accordance to IEC 60127-3.

### Features

- Lead-free
- Reduced PCB space requirements
- Direct solderability or plug-in versions
- Low internal resistance
- Vibration resistance
- Internationally approved
- Shock safe casing
- Halogen free

### Applications

- Power supplies
- Consumer Electronics
- Battery Chargers
- Industrial Controllers

### Agency Approvals.

Safety Agency	Agency File Number	Ampere Range Volt@I.R.ABILITY
	2021000207000004	500mA-6.3A 250V AC@50A
	JD 60105633	1A~5A 250V AC@50A
	SU0505-15001(3.15A~4A) SU0505-15002(1A~2.5A) SU0505-15003(250mA~800mA)	250mA~3.15A 35A@250V AC 4A 10In@250V AC
	R 50315914	250mA~10A 50A@250V AC 250mA~10A 50A@300V AC

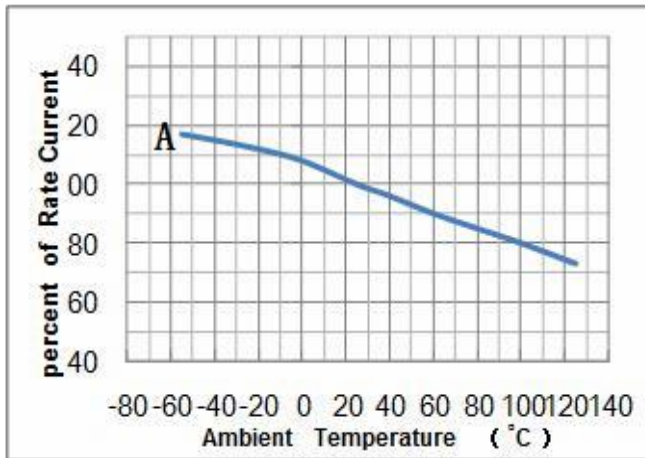
### Electrical Characteristics for Series

% of Ampere Rating	Opening Time
150%	1 Hour,Min
210%	2min,Max
275%	400ms Min, 10s Max
400%	150ms Min, 3s Max
1000%	20ms Min, 150ms Max

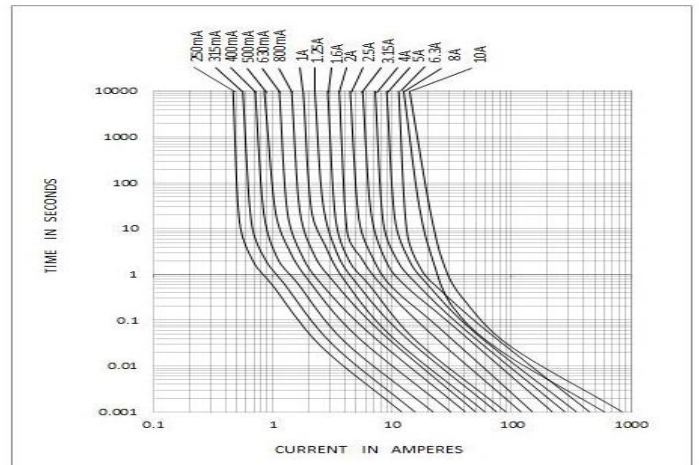
### Electrical Characteristic Specifications by Item

Catalog Number	Rated Current	Voltage Rating	Breaking Capacity	Melting Integral 10In min(A <sup>2</sup> S)	Agency Approvals				
					CCC	PSE	TUV	TUV 300V	KC
TMP0250	250mA	250VAC 300VAC	100A@250V AC 100A@300V AC	0.1440	•		•	•	•
TMP0315	315mA			0.2403	•		•	•	•
TMP0400	400mA			0.4840	•		•	•	•
TMP0500	500mA			0.9610	•		•	•	•
TMP0630	630mA			1.6810	•		•	•	•
TMP0800	800mA			2.5000	•		•	•	•
TMP1100	1A			3.6000	•	•	•	•	•
TMP1125	1.25A			5.6250	•	•	•	•	•
TMP1160	1.6A			8.1000	•	•	•	•	•
TMP1200	2A			14.400	•	•	•	•	•
TMP1250	2.5A			22.500	•	•	•	•	•
TMP1315	3.15A			48.400	•	•	•	•	•
TMP1400	4A			78.400	•	•	•	•	•
TMP1500	5A			122.50	•	•	•	•	
TMP1630	6.3A			202.50	•	•	•	•	
TMP1800	8A			360.00		•	•	•	
TMP2100	10A			722.50		•	•	•	

### Temperature Re-rating Curve

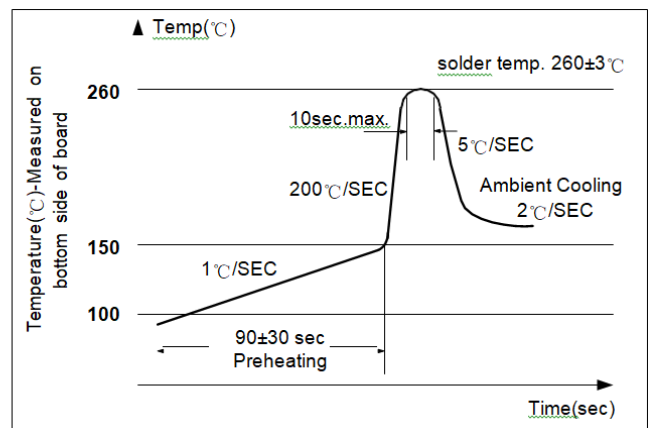


### Average Time Current Curves



### Soldering Parameters-Wave Soldering

Lead-Free Wave Soldering Profile	
Wave Soldering Parameter	
Average ramp-up rate	200°C/second
Heating rate during preheat	Typical 1-2°C/second Max 4°C/second
Final preheat temperature	Within 125°C of Soldering temperature
Peak temperature	260°C
Time within +0/-5°C of actual peak temperature	10 seconds
Ramp-down Rate	5°C/second max



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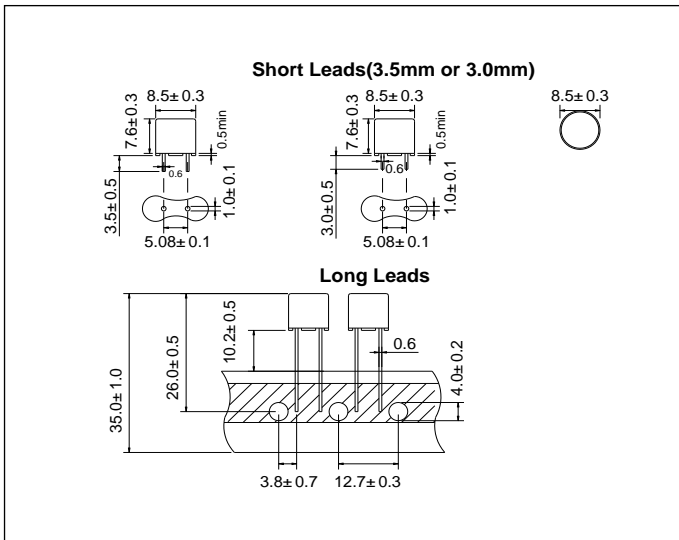


### Product Characteristics

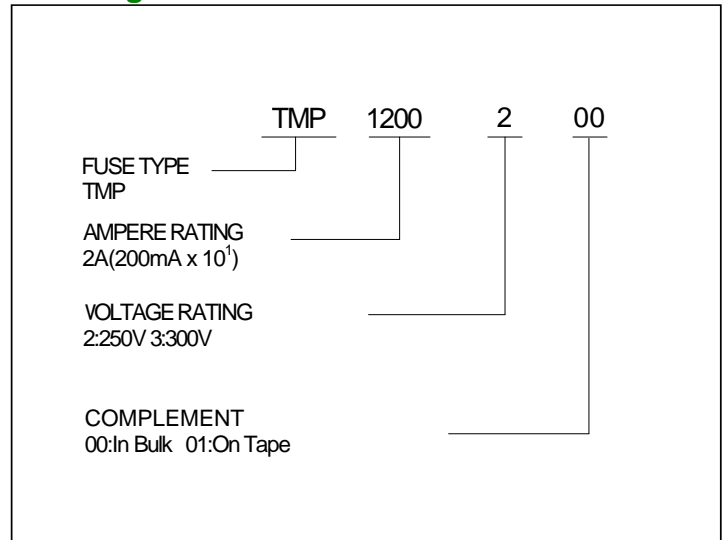
Materials	Base/Cap:Black Thermoplastic Polyamide PA66,UL 94 V-0 Round Pins:Copper Tin-plated
Lead Pull Strength	10 N(IEC 60068-2-21)
Soldering Parameters	260°C, ≤10 sec.(wave) 350°C, ≤3 sec.(soldering iron)
Soldering Heat Resistance	260°C, 10 sec.(IEC 60068-2-20) 350°C, ≤3 sec.(soldering iron)

Operating Temperature	-55°C to +125°C (consider de-rating)
Climatic Category	-40°C to +85°C/21 days (EN 60068-1, -2-1, -2-2, -2-78)
Stock Condition	+10°C to +60°C Relative humidity ≤75% yearly Average, without dew, maximum Value for 30 days-95%
Vibration Resistance	24 cycles at 15 min. each (EN 60068-2-6) 10-60 Hz at 0.75 mm amplitude 60-2000 Hz at 10 g acceleration

### Mechanical Dimensions



### Ordering Information



### Packaging

Packaging Option	Packaging Specification	Quantity
On Tape	N / A	1000pcs
In Bulk	N / A	1000pcs