

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

Applications

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

Agency Approvals.

Safety Agency	Agency File Number	Ampere Range Volt@I.R.ABILITY
	E133774	250mA-6.3A 250V AC@50A 250mA-6.3A 300V AC@50A
	40027219	5A-6.3A 250V AC@50A
	40027218	315mA, 630mA 1A-4A 250V AC@50A
	08012025400	5A-6.3A 250V AC@50A
	2008010207296 123	250mA-4A 250V AC@50A
	JD60105633	1A-6.3A 250V AC@50A
	SU0505-15001	250mA-4A 250V AC@50A
	R50315914	250mA-10A 250V AC@50A 250mA-10A 300V AC@50A

% 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

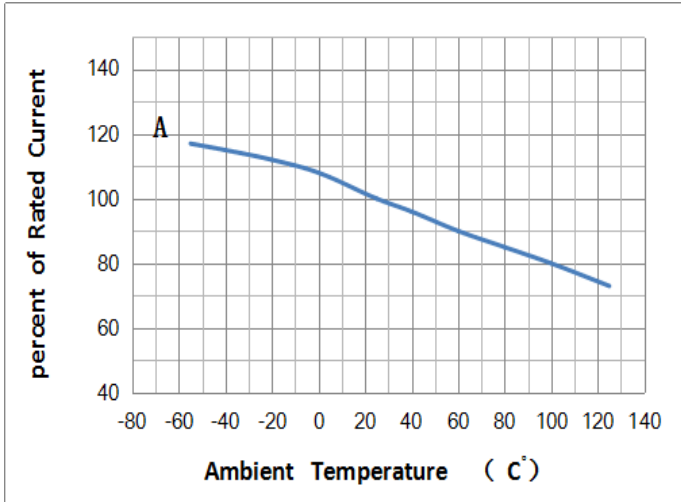
Catalog Number	Rated Current	Voltage Rating	Breaking Capacity	Melting Integral 10In min(A ² S)	Agency Approvals							
TMP0250	250mA	250V / 300V	50A	0.1440				●	●	●	●	
TMP0315	315mA		50A	0.2403		●		●	●	●	●	
TMP0400	400mA		50A	0.4840		●		●	●	●	●	
TMP0500	500mA		50A	0.9610		●		●	●	●	●	
TMP0630	630mA		50A	1.6810		●		●	●	●	●	
TMP0800	800mA		50A	2.5000		●		●	●	●	●	
TMP1100	1A		50A	3.6000		●		●	●	●	●	●
TMP1125	1.25A		50A	5.6250		●		●	●	●	●	●
TMP1160	1.6A		50A	8.1000		●		●	●	●	●	●
TMP1200	2A		50A	14.400		●		●	●	●	●	●
TMP1250	2.5A		50A	22.500		●		●	●	●	●	●
TMP1315	3.15A		50A	48.400		●		●	●	●	●	●
TMP1400	4A		50A	78.400		●		●	●	●	●	●
TMP1500	5A		50A	122.50		●		●	●	●	●	●
TMP1630	6.3A		63A	202.50		●		●	●	●	●	
TMP1800	8A		80A	360.00							●	
TMP2100	10A		100A	722.50							●	

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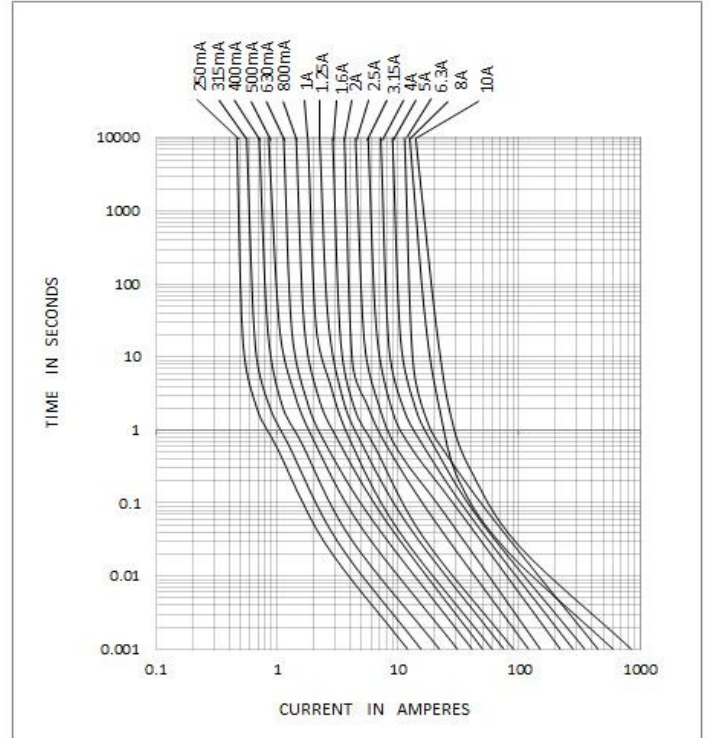
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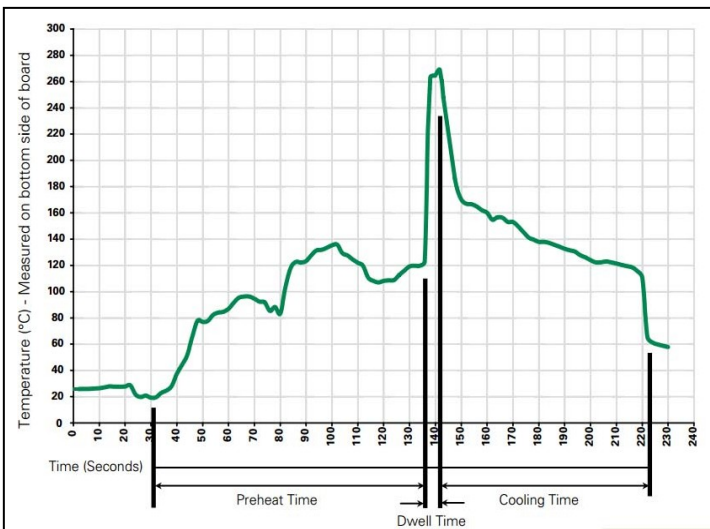
Temperature Re-rating Curve



Average Time Current Curves



Soldering Parameters-Wave Soldering



Recommended Process Parameters:

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 °C/-5 °C of actual peak temperature	10 seconds
Ramp-down rate	5 °C/second max

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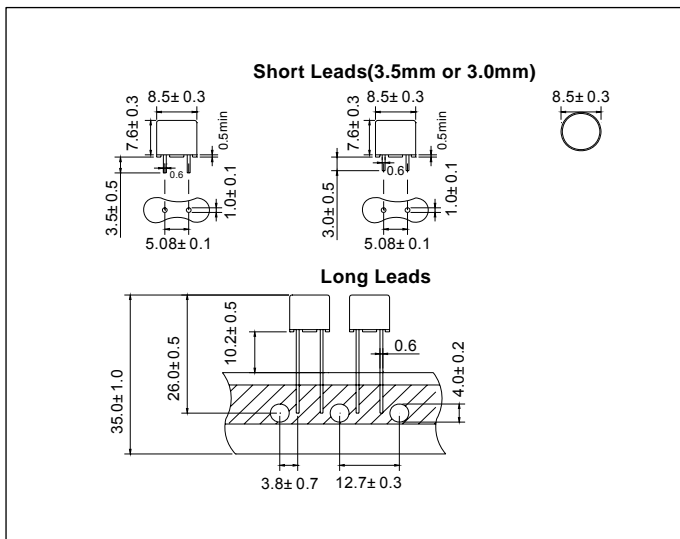


Product Characteristics

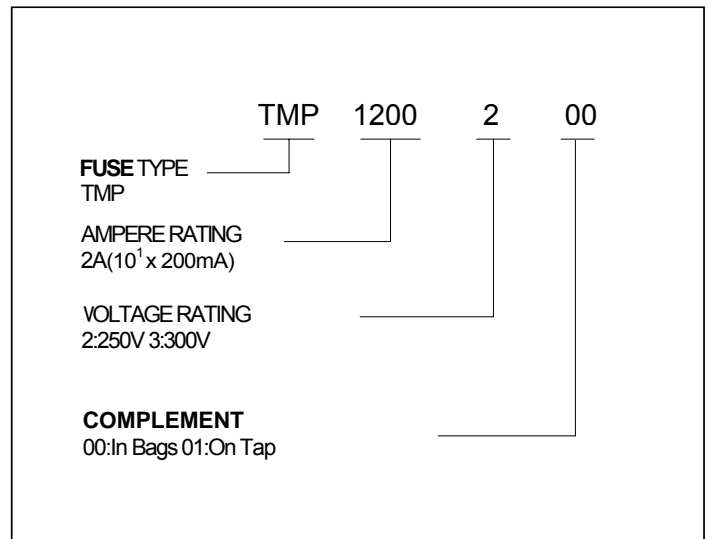
Materials	Base/Cap : Black Thermoplastic Polyamide PA 6.6,UL 94 V-0 Round Pins :Copper Tin-plated
Lead Pull Strength	10 N(IEC 60068-2-21)
Soldering Parameters	260 °C, ≤10 sec.(wave) 350 °C, ≤3 sec.(soldering iron)
Soldering Heat Resistance	260 °C, 10 sec.(IEC 60068-2-20) 350 °C, ≤3 sec.(soldering iron)

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 Tap(01)	N / A	1000
In Bags(00)	N / A	1000