TLC Electronic	1206 Slow Blow SMD Fuses	DOC.No. ISS:F12T2.5

INDIVIDUAL SPECIFICATION SHEET

Product Name: 1206 Slow Blow SMD Fuses

Part Number: :F12T2.5

Revision: B

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Rev.	Effective Date	Changed Contents
A	2020-9-25	New Release
B	2021-3-10	Update Spedfications

PREPEARED BY	APPROVED BY
杨婷	

Description

F12T Series are the fuses set the industry standard for performance, reliability and quality. The solder-free design provides excellent on-off and temperature cycling characteristics during use and also makes our SMD fuses more heat and shock tolerant than typical subminiature fuses.

Electrical Characteristics					
Rated Current	1.0In	2.5In	3.0In	3.5In	10.0In
2.5A	4 hour min.	5 sec max.	0.1sec – 3sec	-	0.2ms – 20ms

Features

- High inrush current withstanding capability
- AEC-Q200 Automotive Grade Certified
- Compatible with reflow and wave solder
- Ceramic and glass construction
- Excellent environmental integrity
- One time positive disconnect
- Lead Free and Halogen free material

Specifications

Specification							
Part No.	Rated Voltage DC	Rated Current (A)	Breaking Capacity (A) [1]	Typical Cold. Resistance (mOhms) [2]	Typical Voltage Drop (mV)	Typical Pre-Arcing I^2t (A^2Sec) [3]	Alpha Mark
F12T2.5	72V	2.5	50A	75	240	0.68	O

1. DC Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source)
2. DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25℃
3. Typical Pre-arcing I^2t are measured at 10In Current

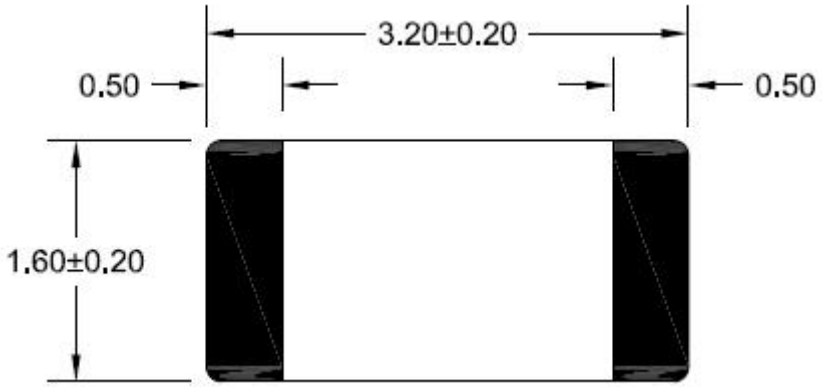
Choice fuse for surge application (USB charger etc.), make sure the I^2t of fuse is 4 times than surge.

Specifications are subject to change without notice. Application testing is strongly recommended.

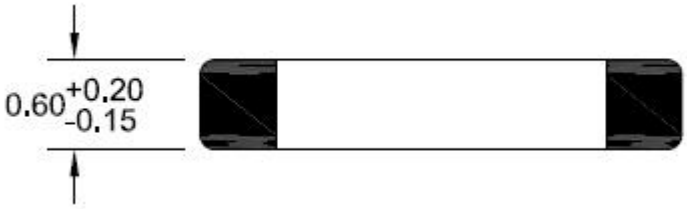
Dimension

Drawing not to scale (Unit: mm)

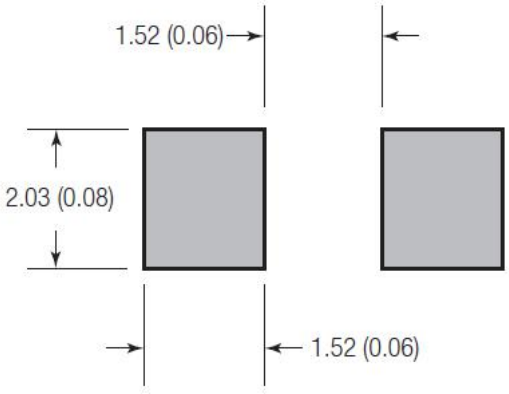
Top view



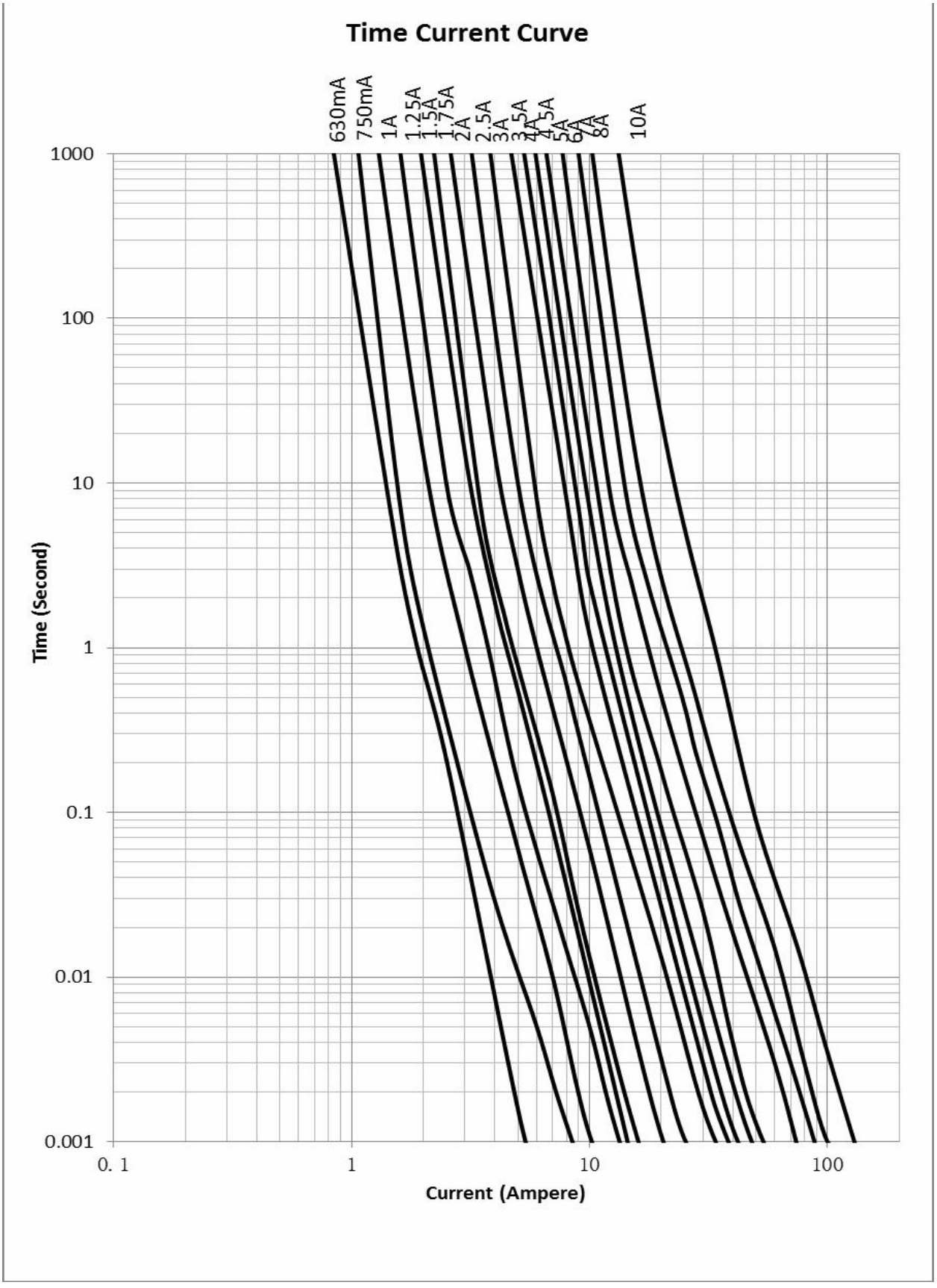
Side view



Recommended land pattern



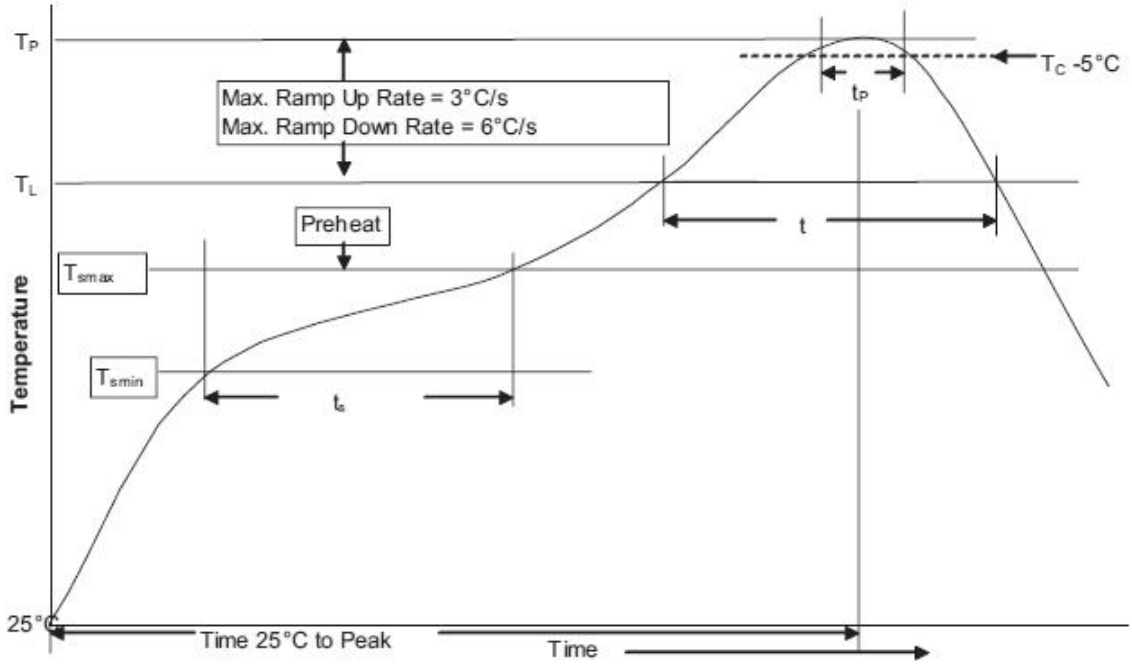
Unit: mm(inch)


Time Current Curve
630mA
750mA
1A
1.25A
1.5A
1.75A
2A
2.5A
3A
3.5A
4A
4.5A
5A
6A
7A
8A
10A
1000
100
10
1
0.1
0.01
0.001
Time (Second)
0. 1
1
10
100
Current (Ampere)

Soldering method

- Wave solder
  - Reservoir temperature: 260℃
  - Time in reservoir: 10 seconds maximum
- Infrared reflow
  - Temperature: 260℃
  - Time: 30 seconds maximum

Solder reflow profile

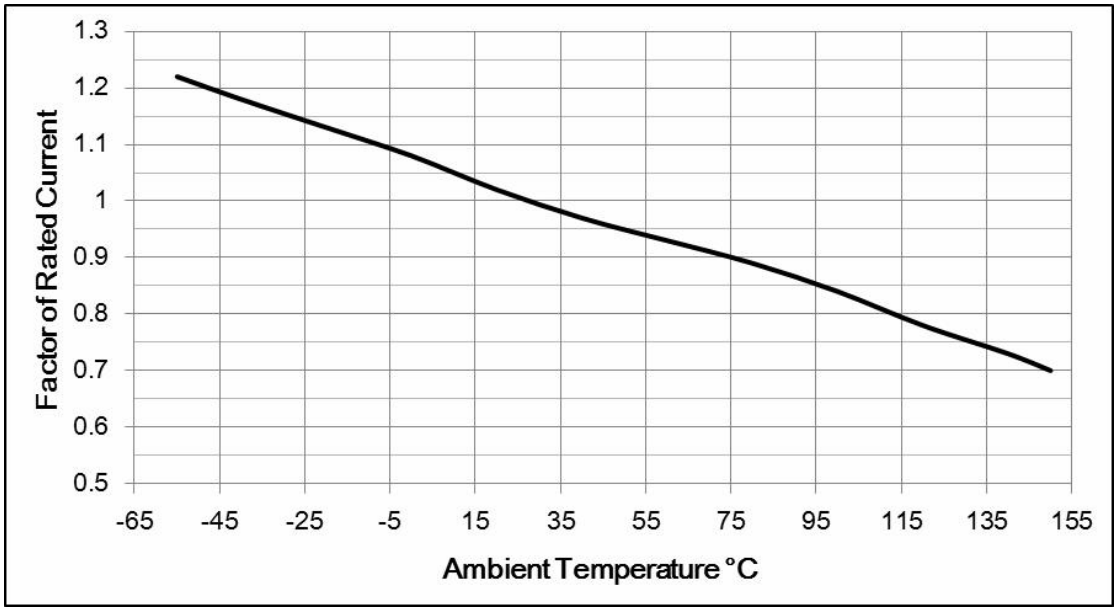


Profile Feature		Lead(Pb) free solder
Preheat and soak	• Temperature min.(T_{smin})	150℃
	• Temperature max. (T_{smax})	200℃
	• Time (T_{smin} to T_{smax}) (t_S)	60 - 120 Seconds
Average ramp up rate T_{smax} to T_p		3℃ / Second Max.
Liquidous temperature (T_L) Time at liquidous (t_L)		217℃ 60 - 150 Seconds
Peak package body temperature (T_P)		260℃
Time (t_P) within 5℃ of the specified classification temperature (T_C)		30 Seconds
Average ramp-down rate (T_P to T_{smax})		6℃ / Second Max.
Time (25℃ to Peak Temperature)		8 Minutes Max.

Temperature Derating Curve

Normal ambient temperature: 23+/-3℃

Operating temperature: -55 ~ 125℃, with proper correction factor applied



Package

3000 fuses on 8mm tape-and-reel on a 7 inch (178mm) reel per EIA Standard 481.

--- End of Document ---

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