

INDIVIDUAL SPECIFICATION SHEET

Product Name: 1206 Slow Blow SMD Fuses

Part Number: :F12T10

Revision: B



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

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PREPEARED BY	APPROVED BY
杨靖	STREE



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	3.0ln	3.5In	10.0In			
10	4 hour min.	-	-	5 sec max.	0.2ms – 10ms			

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	Rated Current	Breaking	Typical Cold. Resistance (mOhms) ²	Typical Voltage Drop (mV)	Typical Pre- Arcing I ² t (A ² Sec) ³	Alpha Mark		
	Voltage	(A)	Capacity (A) ¹						
	DC								
F12T10	32V	10	150A@32Vdc	6.5	110	22	U		

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 $^\circ C$

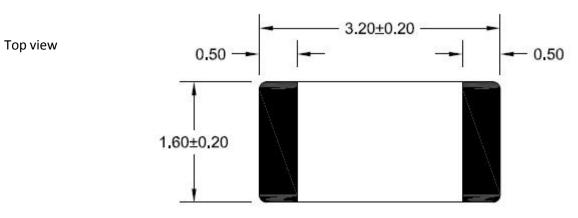
3. Typical Pre-arcing I²t are measured at 10In Current

Choice fuse for surge application (USB charger etc.), make sure the l²t of fuse is 4 times than surge. Specifications are subject to change without notice. Application testing is strongly recommended.



Dimension

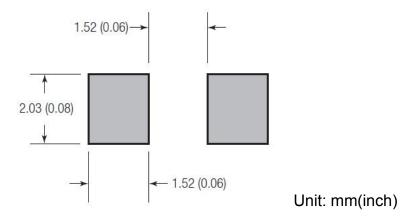
Drawing not to scale (Unit: mm)



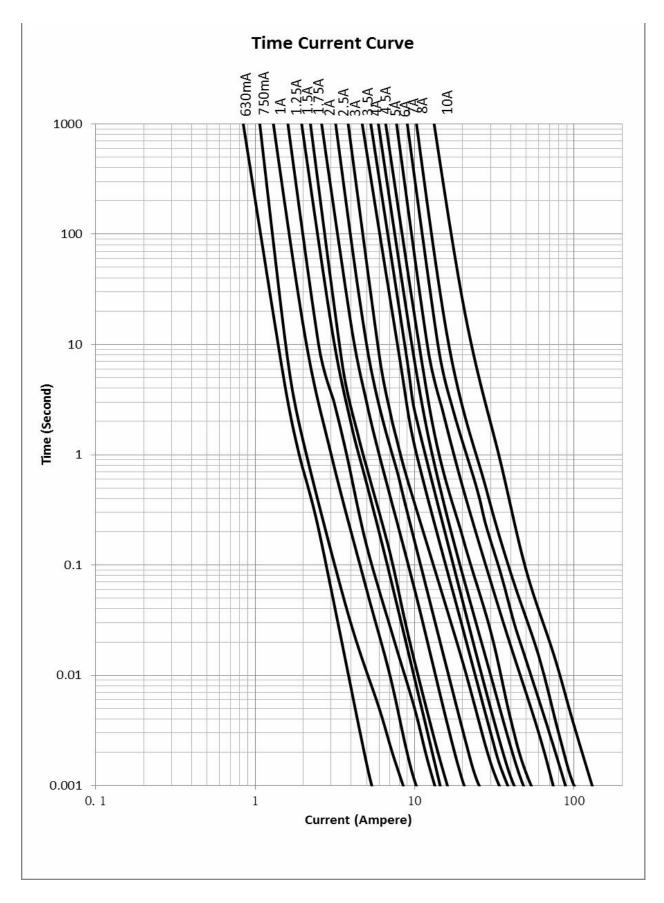
Side view



Recommended land pattern





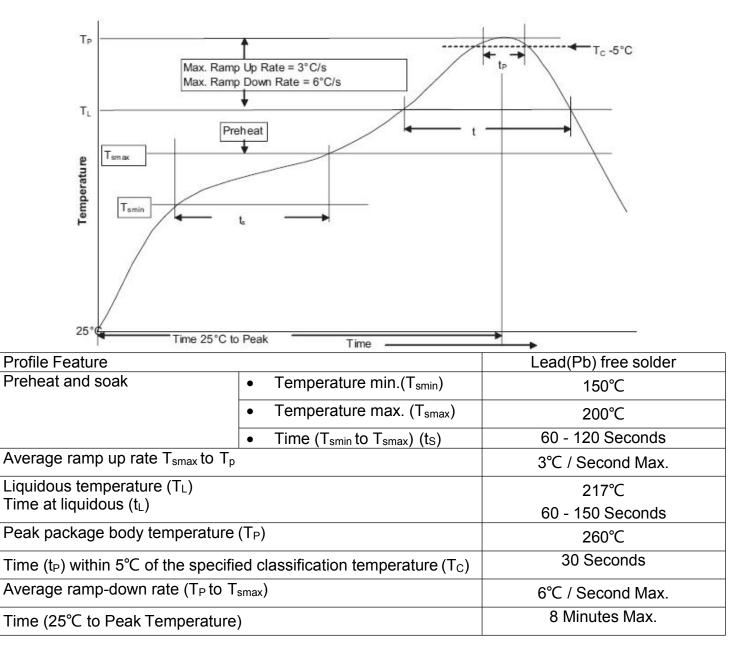




Soldering method

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

Solder reflow profile

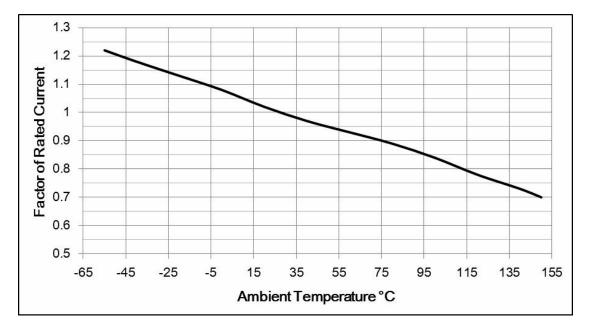




Temperature Derating Curve

Normal ambient temperature: 23+/-3°C

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



Package

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

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