

INDIVIDUAL SPECIFICATION SHEET

Product Name: 1206 Slow Blow SMD Fuses

Part Number: :F12T25

Revision: A



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Rev.	Effective Date	Changed Contents		
Α	2021-9-1	New Release		

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PREPEARED BY	APPROVED BY
杨崎	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	3.5ln	10.0In	
25A	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 Voltage DC	Rated Current (A)	Breaking Capacity (A) ¹	Typical Cold. Resistance (mOhms) ²	Typical Voltage Drop (mV)	Typical Pre- Arcing I ² t (A ² Sec) ³	Alpha Mark		
F12T25	32V	25	150A@32Vdc	1.6	90	60	L		

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

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

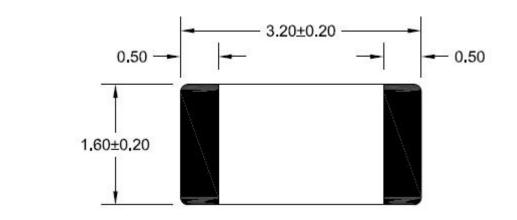




Dimension

Top view

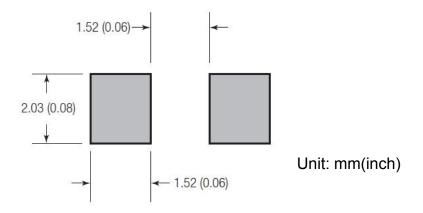
Drawing not to scale (Unit: mm)



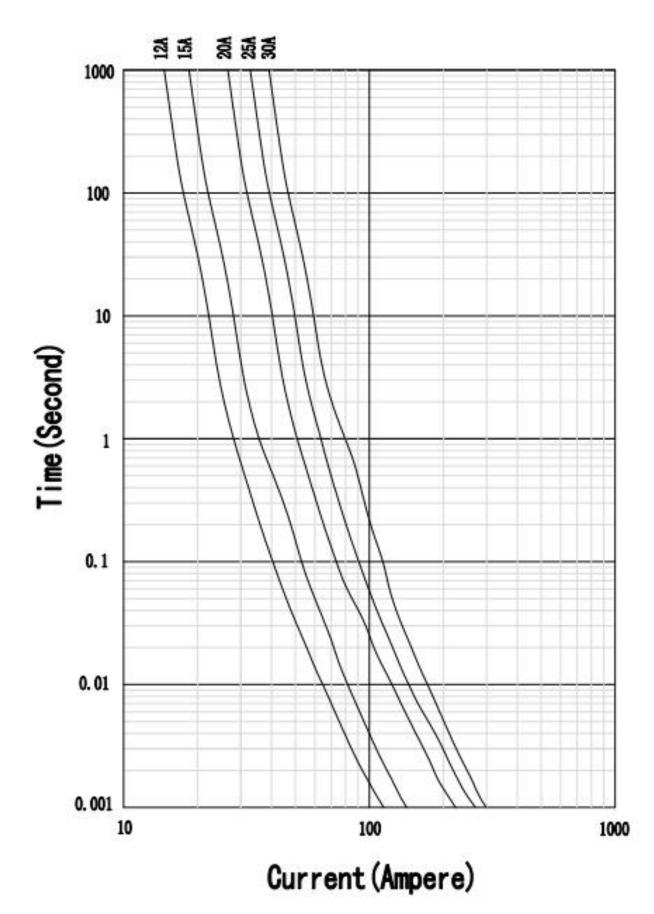
Side view



Recommended land pattern







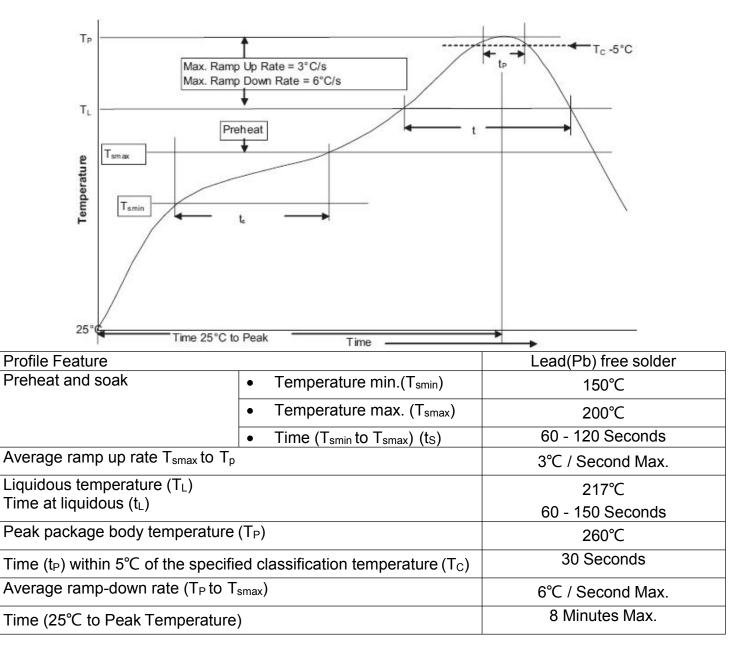
Time Current Curve



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

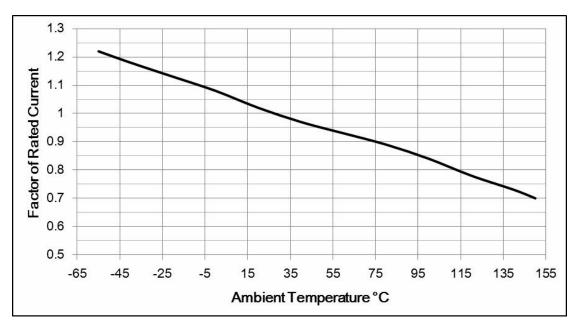




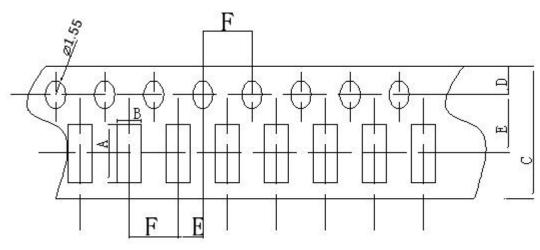
Temperature Derating Curve

Normal ambient temperature: 23+/-3°C

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



包装尺寸 Packing size



代码 Code	А	В	С	D	E	F
尺寸 size(unit: mm)	3.5	1.9	8	1.75	3.5	4

Package

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

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