

1206 Slow Blow SMD Fuses

DOC.No. ISS:F12T3

INDIVIDUAL SPECIFICATION SHEET

Product Name: 1206 Slow Blow SMD Fuses

Part Number: :F12T3

Revision: B



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PREPEARED BY	APPROVED BY
杨娟	ABA



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	1.0ln	2.5ln	3.0ln	3.5ln	10.0ln
3A	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							
	Rated	Rated Current	Breaking	Typical Cold.	Typical	Typical Pre-	Alpha
Part No.	Voltage	(A)	Capacity (A) 1	Resistance (mOhms) ²	Voltage Drop (mV)	Arcing I ² t (A ² Sec) ³	Mark
	DC						
F12T3	72V	3	50A@72Vdc	47	187	1.5	Р

- 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 I²t of fuse is 4 times than surge.

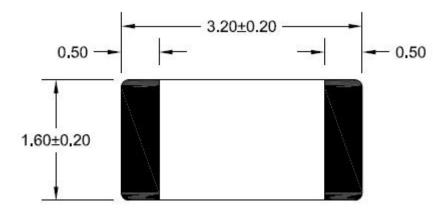
 Specifications are subject to change without notice. Application testing is strongly recommended.



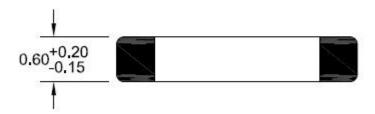
Dimension

Drawing not to scale (Unit: mm)

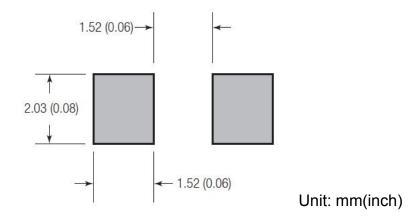
Top view



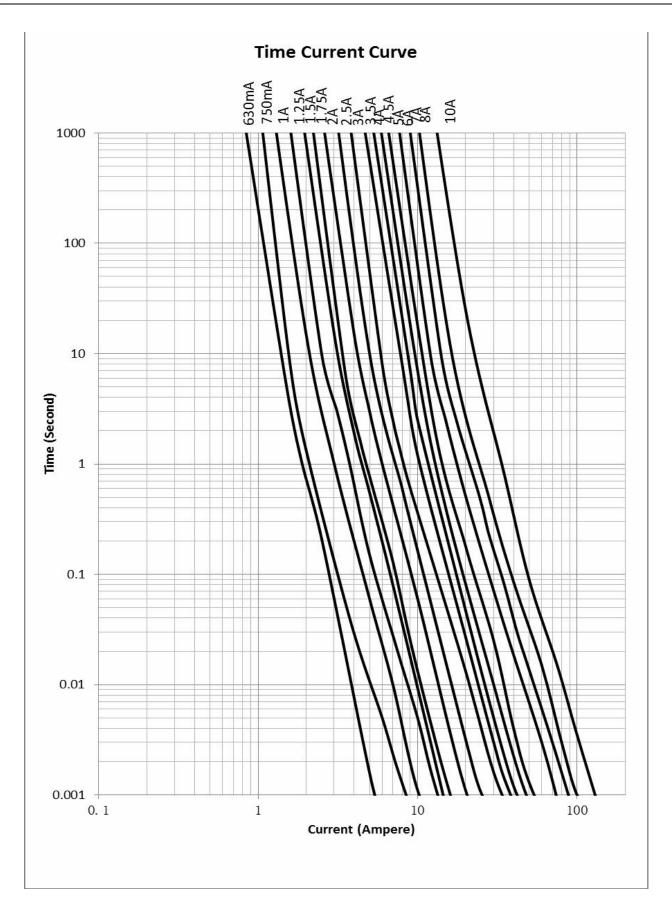
Side view



Recommended land pattern









Soldering method

Wave solder

■ Reservoir temperature: 260°C

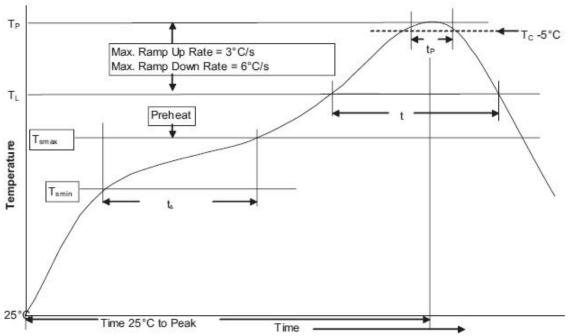
■ Time in reservoir: 10 seconds maximum

> Infrared reflow

■ Temperature: 260°C

■ Time: 30 seconds maximum

Solder reflow profile



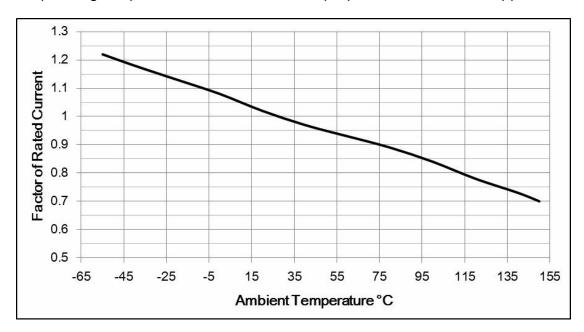
Profile Feature		Lead(Pb) free solder	
Preheat and soak	heat and soak • Temperature min.(T _{smin})		
	Temperature max. (T _{smax})	200°C	
	Time (T _{smin} to T _{smax}) (t _S)	60 - 120 Seconds	
Average ramp up rate T _{smax} to T _p		3°C / Second Max.	
Liquidous temperature (T _L)		217°C	
Time at liquidous (t∟)		60 - 150 Seconds	
Peak package body temperature (T _P)		260°C	
Time (t _P) within 5°C of the specified classification temperature (T _C)		30 Seconds	
Average ramp-down rate (T _P to T _{smax})		6°C / Second Max.	
Time (25°C to Peak Temperature)		8 Minutes Max.	



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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