

INDIVIDUAL SPECIFICATION SHEET

Product Name: 1206 Slow Blow SMD Fuses

Part Number: :F12T5

Revision:B



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Rev.	Effective Date	Changed Contents
Α	2020-9-18	New formulation
В	2021-3-10	Update Spedfications

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PREPEARED BY	APPROVED BY
杨峰	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	2.5In	3.0ln	3.5ln	10.0ln	
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							
	Rated Voltage	Rated Current	Breaking Capacity (A) ¹	Typical Cold. Resistance	Typical Voltage	Typical Pre- Arcing I ² t	Alpha Mark
Part No.	DC	(A)	Supposity (71)	(mOhms) ²	Drop (mV)	(A ² Sec) ³	
F12T5	32V	5	50A@32Vdc	24	140	4.9	Т

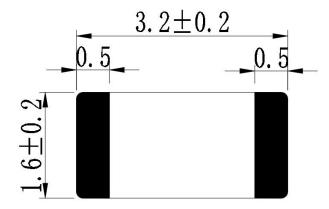
- 1. DC Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source)
- 2. DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25°C
- 3. Typical Pre-arcing I²t are measured at 10In Current Choice fuse for surge application (USB charger etc.), make sure the 12t of fuse is 4 times than surge.
- 4. Specifications are subject to change without notice. Application testing is strongly recommended.



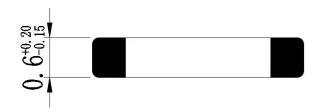
Dimension

Drawing not to scale (Unit: mm)

Top Viev

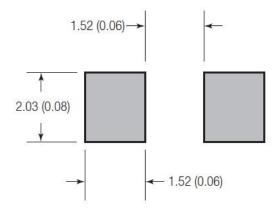


Side Viev



Recommended land pattern

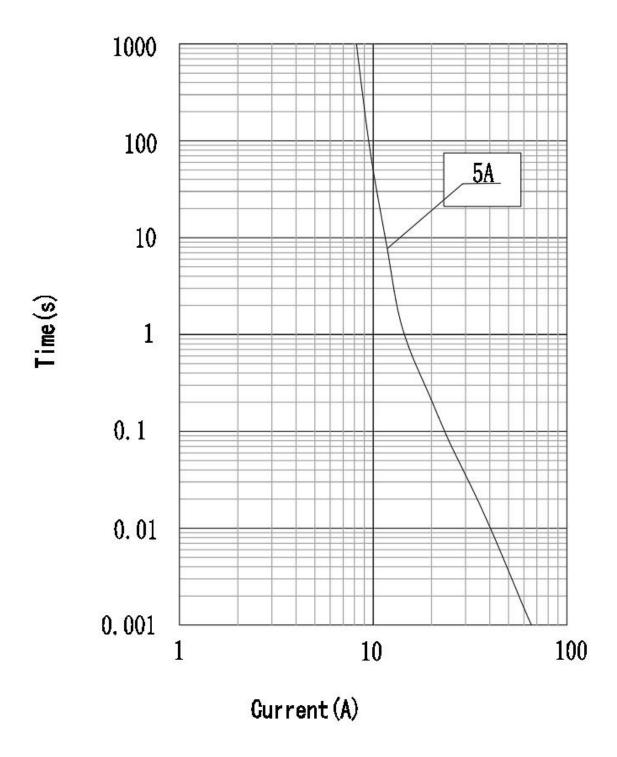
Unit: mm(inch)





Time-Current Characteristics

Time-Current Characteristics





Soldering method

> Wave solder

■ Reservoir temperature: 260°C

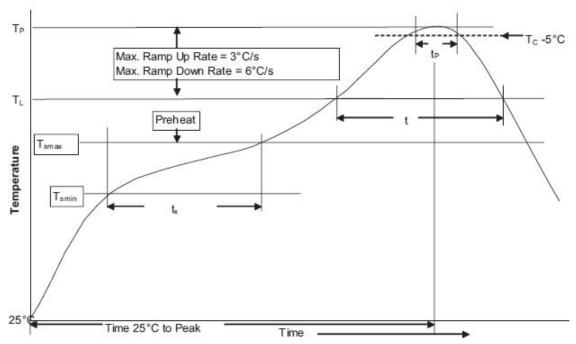
■ Time in reservoir: 10 seconds maximum

> Infrared reflow

■ Temperature: 260°C

■ Time: 30 seconds maximum

Solder reflow profile



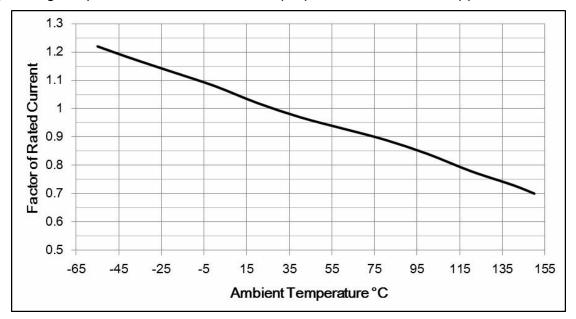
		Lead(Pb) free solder	
Preheat and soak • Temperature min.(T _{smir}		150℃	
	• Temperature max. (T _{smax})	200°C	
	• Time (T _{smin} to T _{smax}) (t _S)	60 - 120 Seconds	
Average ramp up rate T _{smax} to T _p	3°C / Second Max.		
Liquidous temperature (T _L)	217℃		
Time at liquidous (t∟)	60 - 150 Seconds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