

1206 Slow Blow SMD Fuses

DOC.No. ISS:F12T20

INDIVIDUAL SPECIFICATION SHEET

Product Name: 1206 Slow Blow SMD Fuses

Part Number: :F12T20

Revision: B



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Rev.	Effective Date	Changed Contents
Α	2020-11-16	New Release
B	2021-3-10	Update Spedfications

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PREPEARED BY	APPROVED BY
杨崎	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	3.0In	3.5In	10.0ln	
20A	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							
	Rated	Rated Current	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
Part No.	Voltage	(A)					
	DC						
F12T20	32V	20	150A@32Vdc	2.4	80	50	Q

- 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

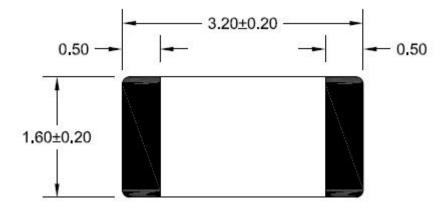
Choice fuse for surge application (USB charger etc.), make sure the l²t of fuse is 4 times than surge. Specifications are subject to change without notice. Application testing is strongly recommended.



Dimension

Drawing not to scale (Unit: mm)

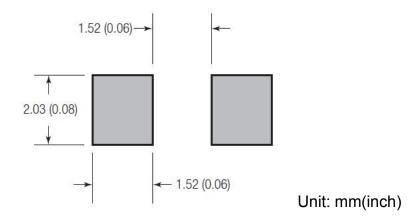
Top view



Side view

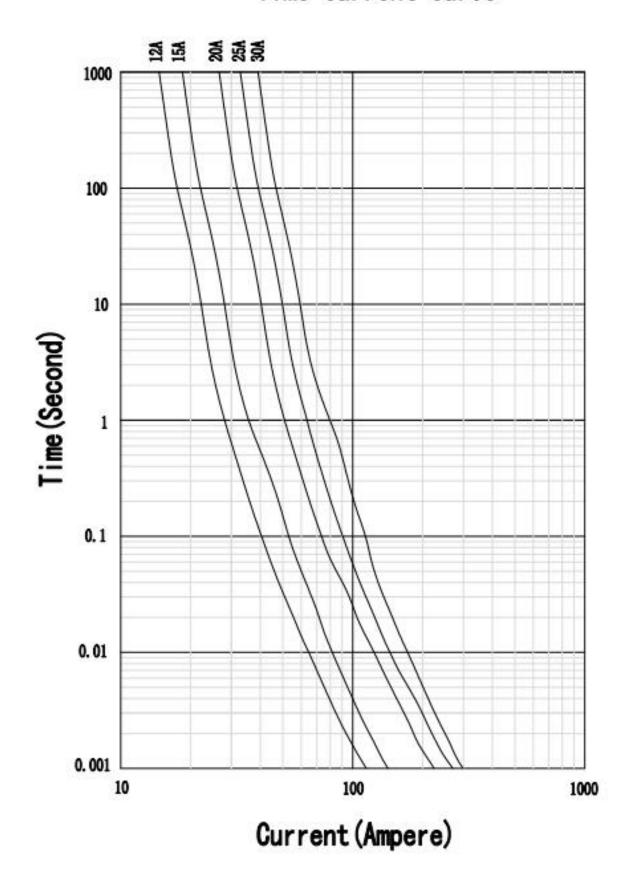


Recommended land pattern





Time Current Curve





Soldering method

Wave solder

■ Reservoir temperature: 260°C

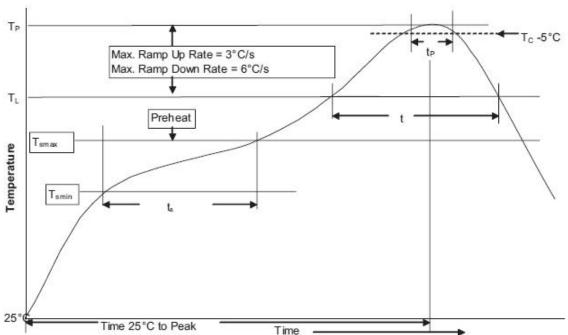
■ Time in reservoir: 10 seconds maximum

> Infrared reflow

■ Temperature: 260°C

■ Time: 30 seconds maximum

Solder reflow profile



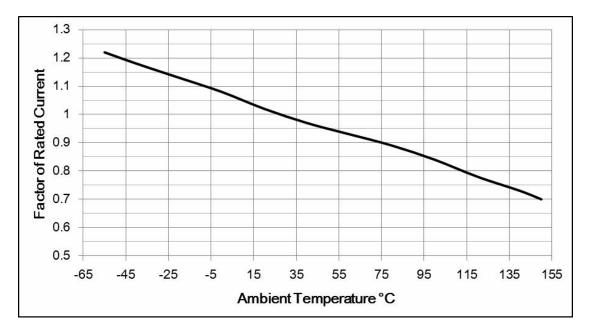
Profile Feature		
Temperature min.(T _{smin})	150°C	
• Temperature max. (T _{smax})	200°C	
• Time (T _{smin} to T _{smax}) (t _S)	60 - 120 Seconds	
Average ramp up rate T _{smax} to T _p		
Liquidous temperature (T _L)		
Time at liquidous (t _L)		
Peak package body temperature (T _P)		
Time (t _P) within 5°C of the specified classification temperature (T _C)		
Average ramp-down rate (T _P to T _{smax})		
Time (25°C to Peak Temperature)		
	Temperature max. (T _{smax}) Time (T _{smin} to T _{smax}) (ts) (T _P) ed classification temperature (T _C) smax)	



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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