

#### 1206 Slow Blow SMD Fuses

DOC.No. ISS:F12T 0.63

# INDIVIDUAL SPECIFICATION SHEET

Product Name: 1206 Slow Blow SMD Fuses

Part Number: :F12T0.63

**Revision:** A



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Rev.	Effective Date	Changed Contents		
Α	2021-11-23	New Release		

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PREPEARED BY	APPROVED BY
杨婵	A Bas



ndustry 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	3.5In	10.0ln	
0.63A	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								
Part No.	Ra	ated	Rated Current	Breaking	Typical Cold. Resistance (mOhms) <sup>2</sup>	Typical Voltage Drop (mV)	Typical Pre- Arcing I <sup>2</sup> t (A <sup>2</sup> Sec) <sup>3</sup>	Alpha Mark
	Vo	ltage	(A)	Capacity (A) <sup>1</sup>				
	DC							
F12T0.63	72V	63V	0.63	50A	1080	950	0.009	В

- 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 I<sup>2</sup>t are measured at 10In Current

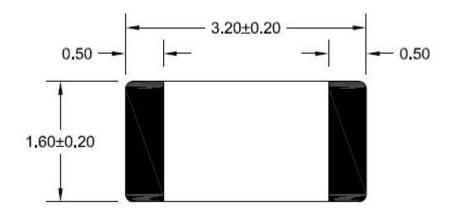
Choice fuse for surge application (USB charger etc.), make sure the I<sup>2</sup>t of fuse is 4 times than surge. Specifications are subject to change without notice. Application testing is strongly recommended.



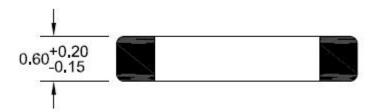
#### **Dimension**

Drawing not to scale (Unit: mm)

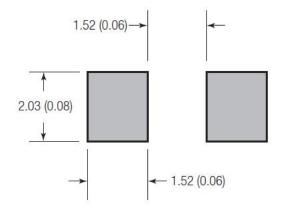
#### Top view



Side view

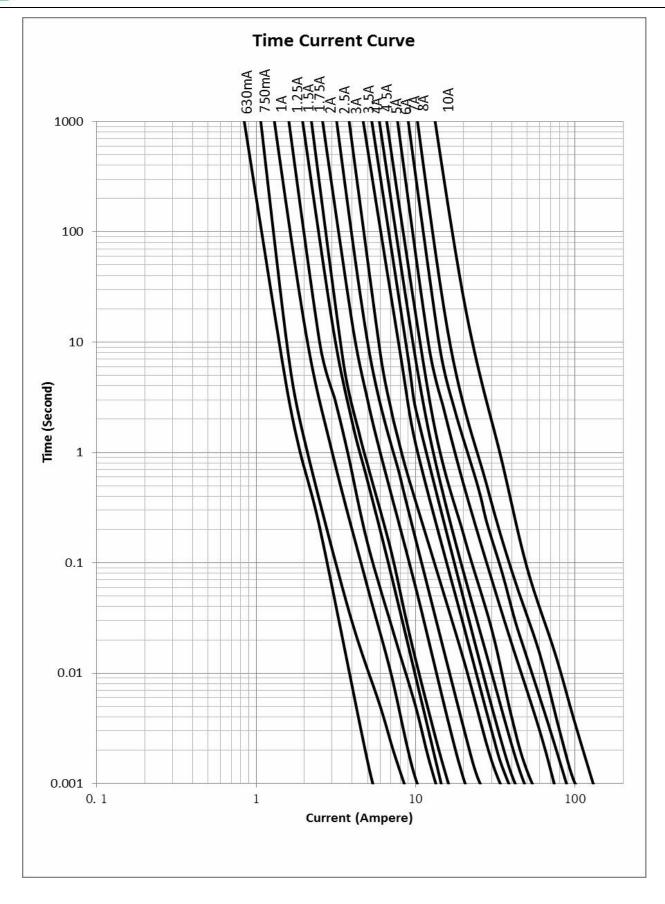


### **Recommended land pattern**



Unit: mm(inch)







#### **Soldering method**

Wave solder

■ Reservoir temperature: 260°C

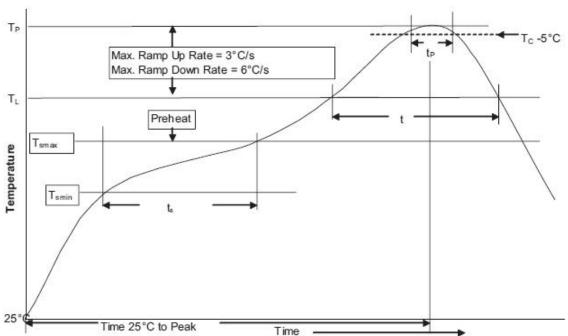
■ Time in reservoir: 10 seconds maximum

> Infrared reflow

■ Temperature: 260°C

■ Time: 30 seconds maximum

#### Solder reflow profile



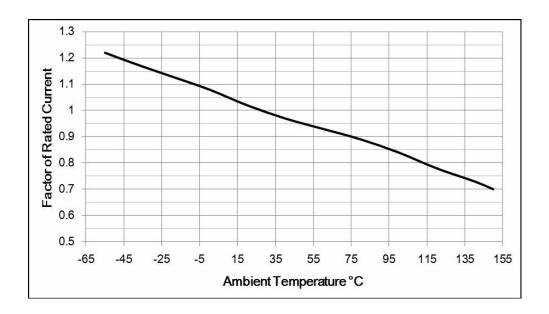
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Profile Feature	Lead(Pb) free solder				
Preheat and soak	Temperature min.(T <sub>smin</sub> )	150°C			
	• Temperature max. (T <sub>smax</sub> )	200℃			
	• Time (T <sub>smin</sub> to T <sub>smax</sub> ) (t <sub>S</sub> )	60 - 120 Seconds			
Average ramp up rate T <sub>smax</sub> to T <sub>p</sub>	3°C / Second Max.				
Liquidous temperature (T <sub>L</sub> )	217°C				
Time at liquidous (t <sub>L</sub> )	60 - 150 Seconds				
Peak package body temperature	260°C				
Time (t <sub>P</sub> ) within 5°C of the specifi	30 Seconds				
Average ramp-down rate (TP 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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