

1206 Fast Acting SMD Fuses

DOC.NO.: ISS:F12F1

INDIVIDUAL SPECIFICATION SHEET

Product Name: 1206 Fast Acting SMD Fuses

Part Number: F12F1

Revision: A









Dongguan TLC Electronic Technology Co., LTD

No.18,5th GaoLi Road,TangXia Town,DongGuan,GuangDong,P.R China 523710

TEL: 86-0769-3892 0511 FAX: 86-0769-8793 2077

Http://www.tlcet.com.cn

Rev.	Effective Date	Changed Contents
Α	2020-9-27	New Release

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PREPEARED BY	APPROVED BY
杨娟	A Mag



Description

F12F 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	3.5ln
1A	4 hour min.	5 sec max.	-

Features

- AEC-Q200 Automotive Grade Certified
- > Rapid interruption of excessive current
- > Compatible with reflow and wave solder
- > Ceramic and glass construction
- ➤ One time positive disconnect
- ➤ Lead Free and Halogen free material

Specifications

Specification							
Part No.	Rated Voltage DC	Rated Curren t (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 Marking
F12F1	72V	1A	50A@72Vdc	490	510	0.10	Н

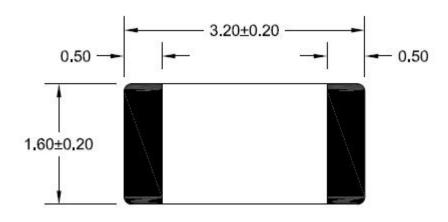
- 1. DC Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source)
- 2. DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25°C
- 3. Typical Pre-arcing I²t are measured at 10In Current

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

Dimension

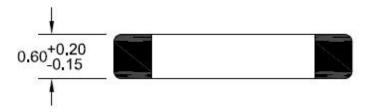
Drawing not to scale (Unit: mm) Top

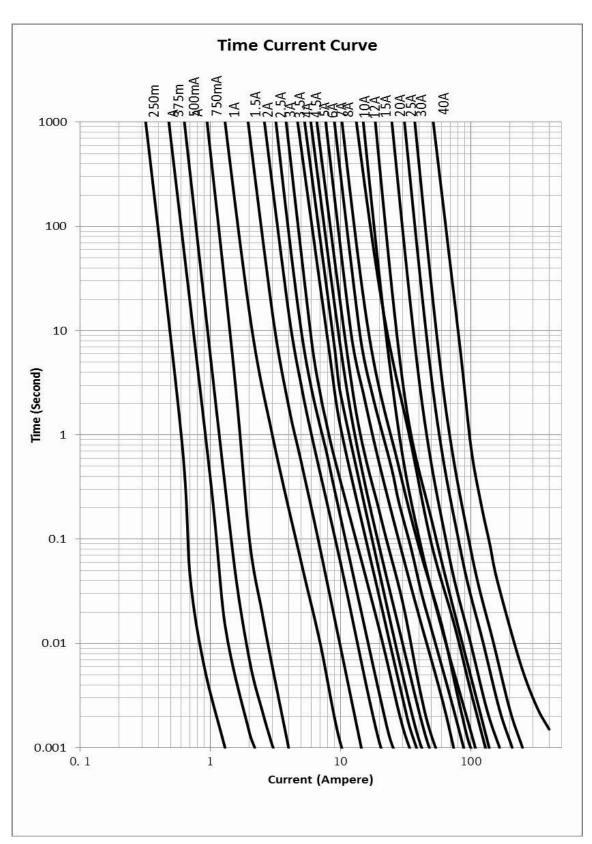
view



Side view: 1A~15A

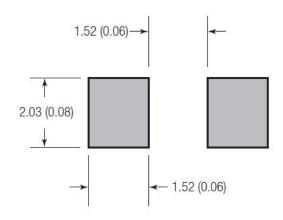








Recommended land pattern



Unit: mm(inch)

Soldering method

Wave solder

■ Reservoir temperature: 260°C

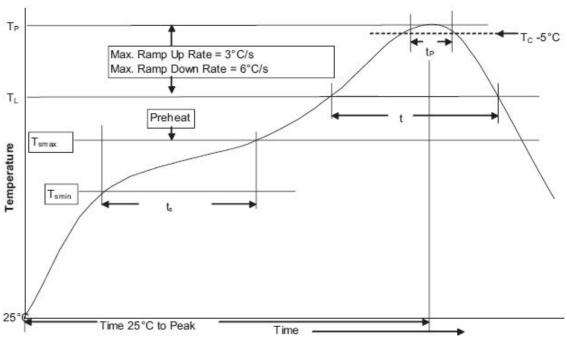
■ Time in reservoir: 10 seconds maximum

> Infrared reflow

■ Temperature: 260°C

■ Time: 30 seconds maximum

Solder reflow profile



Profile Feature		Lead(Pb) free solder
Preheat and soak	Temperature min.(T _{smin})	150℃
	Temperature max. (T _{smax})	200°C
	 Time (T_{smin} to T_{smax}) (t_S) 	60 - 120 Seconds

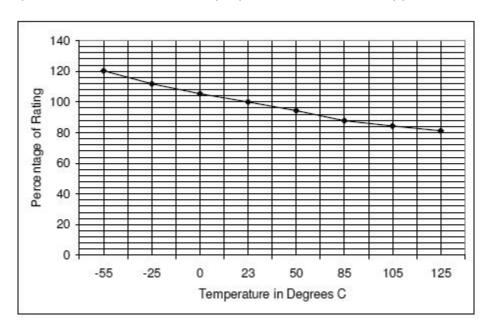


Average ramp up rate T _{smax} to T _p	3°C / Second Max.	
Liquidous temperature (T _L)	217°C	
Time at liquidous (t∟)	60 - 150 Seconds	
Peak package body temperature (T _P)	260°C	
Time (t _P) within 5°C of the specified classification temperature (T _C)	30 Seconds	
Average ramp-down rate (T _P to T _{smax})	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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