

0603 Fast Acting SMD Fuses

DOC.NO.: ISS:F06F3

INDIVIDUAL SPECIFICATION SHEET

Product Name: 0603 Fast Acting SMD Fuses

Part Number: F06F3

Revision: B









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	
В	2021-4-7	Update Spedfications	

The individual specification sheet are the property of Dongguan TLC electronic technology Co.,Ltd and shall not be copied or used as commercial purposes without permission.

PREPEARED BY	APPROVED BY
杨崎	AVBA



Description

F06F 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	
3A	4 hour minimum	5 sec maximum	

Features

- > AEC-Q200 Automotive Grade Certified
- Compatible with reflow and wave solder
- Excellent environmental integrity
- One time positive disconnect
- Lead Free and Halogen free material

Specifications

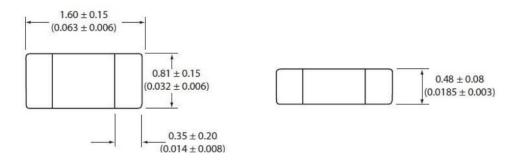
Specification							
Part No.	Rated Voltage DC	Rated Current (A)	Breaking Capacity (A) ¹	Typical Cold. Resistance (mOhms) ²	Typical Voltage Drop (mV)	Typical Pre- Arcing I ² t (A ² Sec) ³	Alpha Mark
F06F3	32V	3	50A	35	130	0.21	0

- 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 25degrees
- 3. Typical Pre-arcing I²t are measured at 10In Current
- ** For 1A-5A, the color of glass coating is Green; for others, it's Blue.

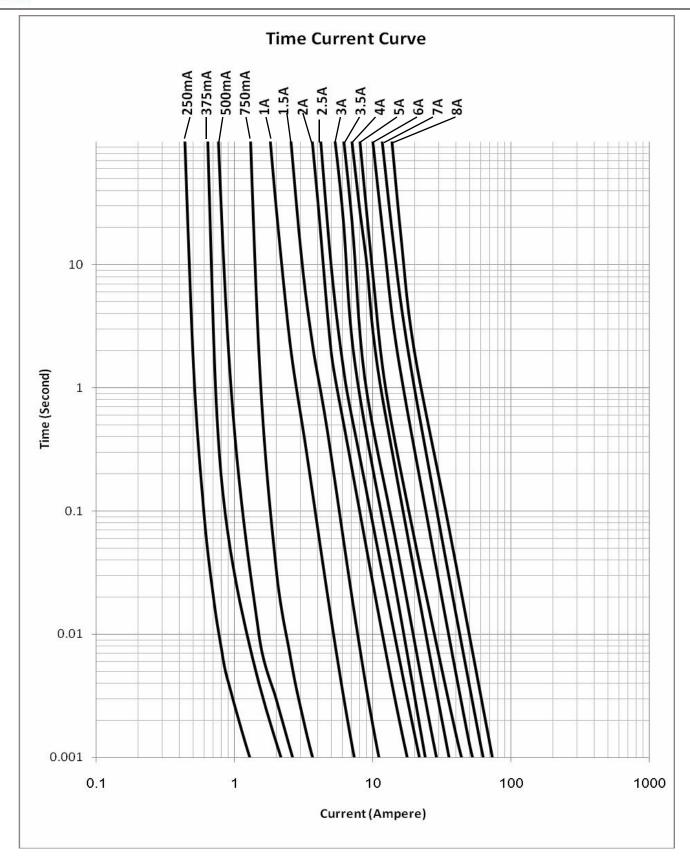
Specifications are subject to change without notice. Application testing is strongly recommended.

Dimension

Drawing not to scale (Unit: mm/inch)

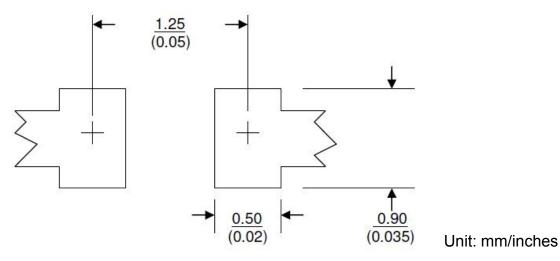








Recommended land pattern



Soldering method

Wave solder

■ Reservoir temperature: 260°C

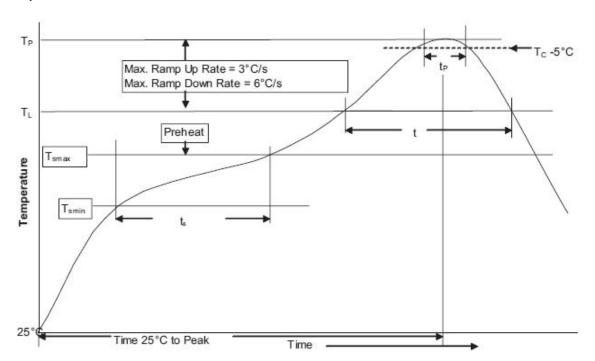
■ Time in reservoir: 10 seconds maximum

> Infrared reflow

■ Temperature: 260°C

■ Time: 30 seconds maximum

Solder reflow profile



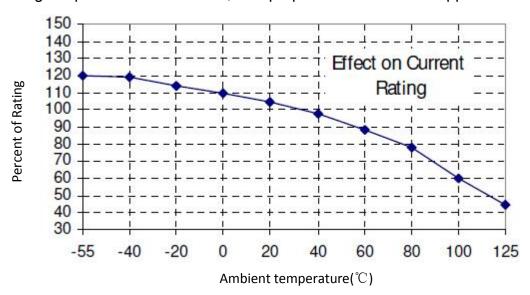


Profile Feature	Lead(Pb) free solder		
Preheat and soak	Temperature min.(T _{smin})	150°C	
	Temperature max. (T _{smax})	200°C	
	Time (T _{smin} to T _{smax}) (t _s)	60 - 120 Seconds	
Average ramp up rate T _{smax}	3°C / Second Max.		
Liquidous temperature (T _L)	217℃		
Time at liquidous (t _L)	60 -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

Temperature Derating Curve

Normal ambient temperature: 23+/-3°C

Operating temperature: -55 ~ 125°C, with proper correction factor applied



Package

5000 fuses on 8mm tape-and-reel on a 7 inch (178mm) reel per EIA Standard 481.

--- End of Document ---