

# 0603 Fast Acting SMD Fuses

DOC.NO.: ISS:F06F8

# **INDIVIDUAL SPECIFICATION SHEET**

Product Name: 0603 Fast Acting SMD Fuses

Part Number: F06F8

**Revision: B** 







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Rev.	Effective Date	Changed Contents
Α	2020-9-27	New Release
В	2021-4-7	Update Spedfications

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PREPEARED BY	APPROVED BY
杨崎	Arma



### 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		
8A	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

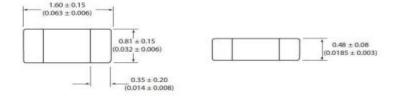
#### **Specifications**

Specification							
Part No.	Rated Voltage DC	Rated Current (A)	Breaking Capacity (A) <sup>1</sup>	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
F06F0.25		0.250	50A	3250	893	0.00042	D
F06F0.375	]	0.375	50A	1800	587	0.00093	E
F06F0.5	]	0.500	50A	1070	582	0.001	F
F06F0.75	]	0.750	50A	470	427	0.009	G
F06F1		1	50A	250	335	0.011	В
F06F1.5	]	1.5	50A	150	270	0.045	Н
F06F2	]	2	50A	78	160	0.115	K
F06F2.5	32V	2.5	50A	49	145	0.14	L
F06F3	]	3	50A	35	130	0.21	0
F06F3.5		3.5	50A	28	130	0.5	R
F06F4	]	4	50A	18	120	0.56	S
F06F5	]	5	50A	14	110	1.2	Т
F06F6		6	50A	11	110	1.7	V**
F06F7	] [	7	50A	9.5	80	2.3	X**
F06F8		8	50A	7	75	3.0	Z**

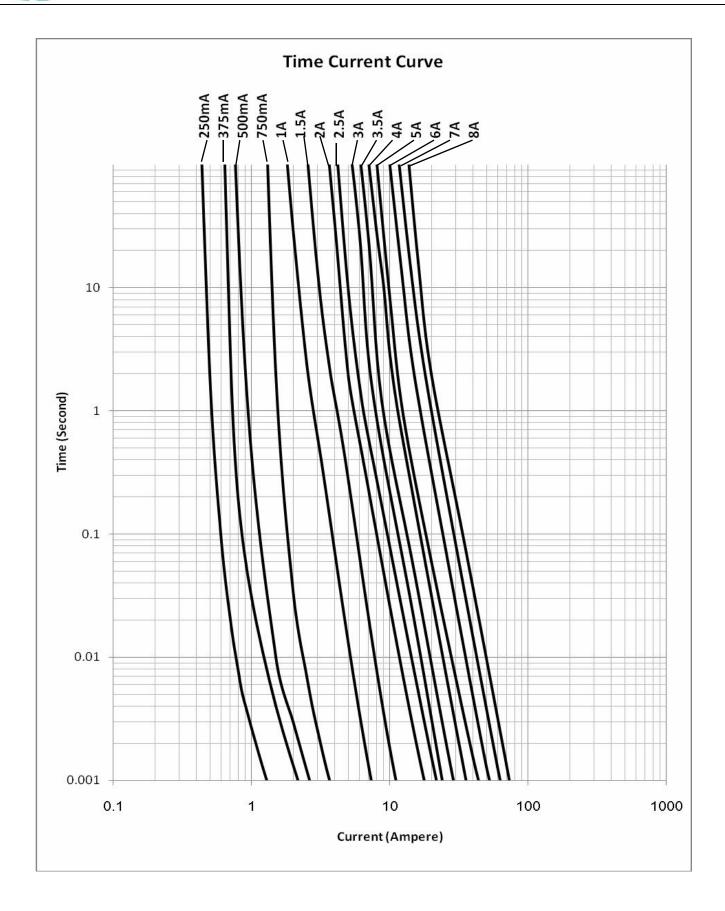
- 1. DC Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source)
- 2. DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25degrees
- 3. Typical Pre-arcing I<sup>2</sup>t are measured at 10In Current
- \*\* For 1A-5A, the 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)

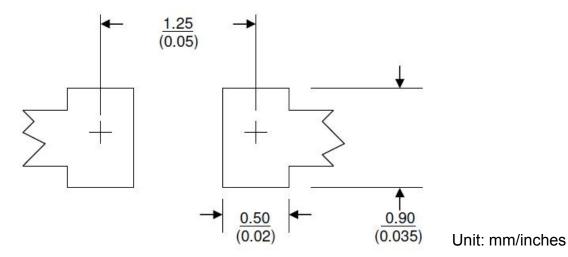








### **Recommended land pattern**



#### **Soldering method**

Wave solder

■ Reservoir temperature: 260°C

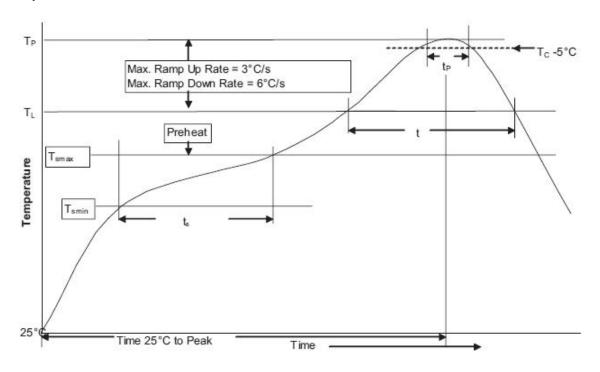
■ Time in reservoir: 10 seconds maximum

> Infrared reflow

■ Temperature: 260°C

■ Time: 30 seconds maximum

#### Solder reflow profile



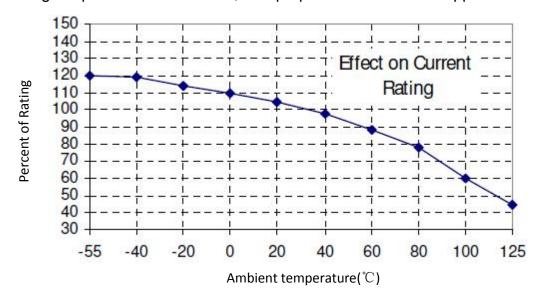


Profile Feature	Lead(Pb) free solder	
Preheat and soak  • Temperature min.(T <sub>smin</sub> )		150℃
	Temperature max. (T <sub>smax</sub> )	200℃
	60 - 120 Seconds	
Average ramp up rate T <sub>smax</sub> to	3°C / Second Max.	
Liquidous temperature (T <sub>L</sub> )	217℃	
Time at liquidous (t <sub>L</sub> )	60 - 150 Seconds	
Peak package body temperatu	260°C	
Time (t <sub>P</sub> ) within 5°C of the spec	30 Seconds	
Average ramp-down rate (TP to	6°C / Second Max.	
Time (25°C to Peak Temperatu	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.

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