

0603 Fast Acting SMD Fuses

DOC.NO.: ISS:F06F6

INDIVIDUAL SPECIFICATION SHEET

Product Name: 0603 Fast Acting SMD Fuses

Part Number: F06F6

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 | 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 | | |
| 6A | 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

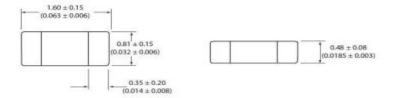
Specifications

| 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 |
| F06F6 | 32V | 6 | 50A | 11 | 110 | 1.7 | V** |

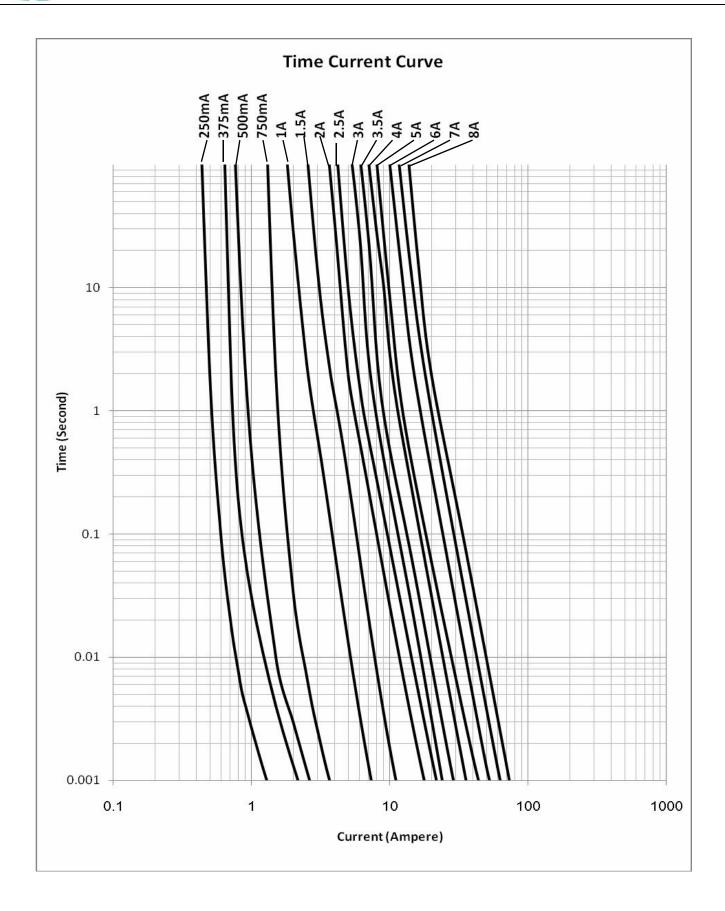
- 1. DC Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source)
- 2. DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25degrees
- 3. Typical Pre-arcing I2t are measured at 10In Current
- ** For 1A-5A, the color of glass coating is Green; for others, it's Blue.

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

vimension urawing not to scale (unit: mm/incn)

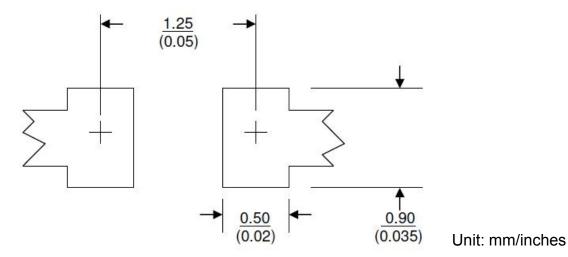








Recommended land pattern



Soldering method

Wave solder

■ Reservoir temperature: 260°C

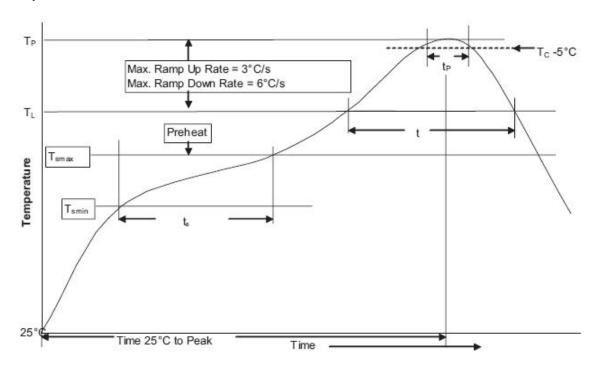
■ Time in reservoir: 10 seconds maximum

> Infrared reflow

■ Temperature: 260°C

■ Time: 30 seconds maximum

Solder reflow profile



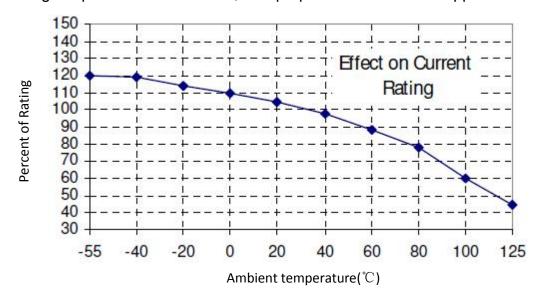


| Profile Feature | Lead(Pb) free solder | |
|---|---------------------------------------|------|
| Preheat and soak | Temperature min.(T _{smin}) | 150℃ |
| | Temperature max. (T _{smax}) | 200℃ |
| | 60 - 120 Seconds | |
| Average ramp up rate T _{smax} to | 3°C / Second Max. | |
| Liquidous temperature (T _L) | 217℃ | |
| Time at liquidous (t _L) | 60 - 150 Seconds | |
| Peak package body temperatu | 260°C | |
| Time (t _P) 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.

--- End of Document ---

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