

1206 Fast Acting SMD Fuses

DOC.NO.: ISS:F12F12

INDIVIDUAL SPECIFICATION SHEET

Product Name: 1206 Fast Acting SMD Fuses

Part Number: F12F12

Revision: A









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| Rev. | Effective Date | Changed Contents |
|------|----------------|------------------|
| Α | 2020-11-02 | New Release |
| | | |
| | | |

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| PREPEARED BY | APPROVED BY |
|--------------|-------------|
| 杨崎 | AVBA |



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 | 2.5In | 3.5In | |
| 250mA~5A | 4 hour min | 5 sec max. | - | |
| 6A~40A | 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 |
| F12F12 | 32V | 12A | 150A@32Vdc | 5 | 85 | 11.5 | 12 |

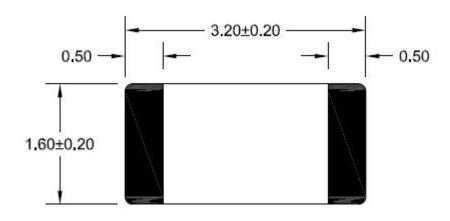
- 1. DC Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source)
- 2. DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25°C
- 3. Typical Pre-arcing I²t are measured at 10In Current

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

Dimension

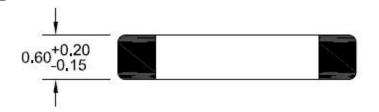
Drawing not to scale (Unit: mm) Top

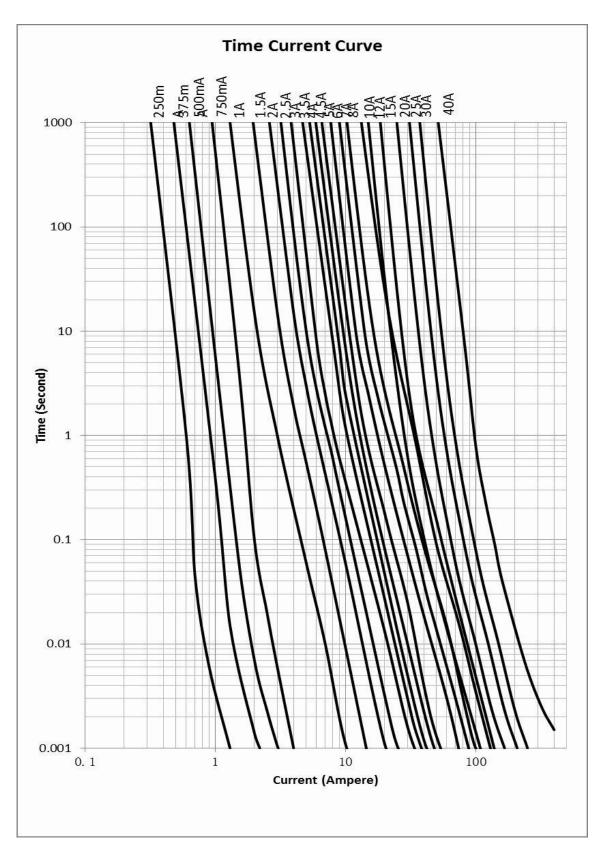
view



Side view: 1A~15A

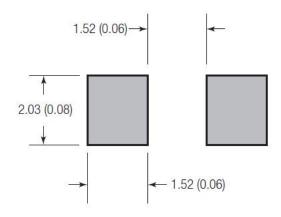








Recommended land pattern



Unit: mm(inch)

Soldering method

Wave solder

■ Reservoir temperature: 260°C

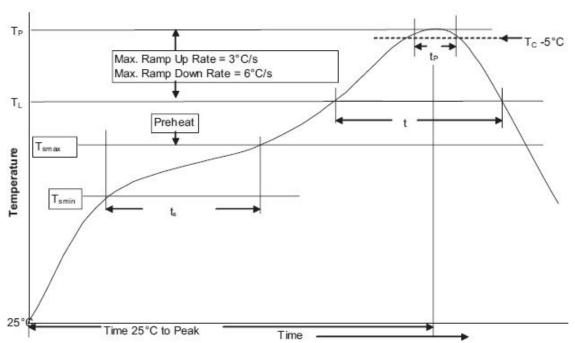
■ Time in reservoir: 10 seconds maximum

> 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°C |
| | Temperature max. (T _{smax}) | 200℃ |
| | Time (T_{smin} to T_{smax}) (t_S) | 60 - 120 Seconds |

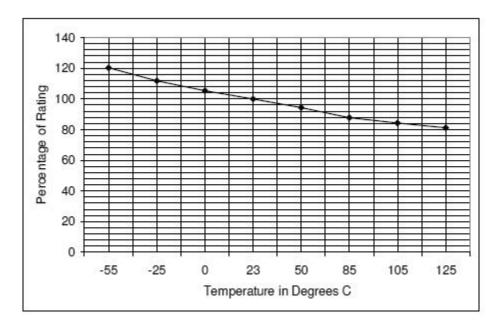


| Average ramp up rate T _{smax} to T _p | 3°C / Second Max. | |
|---|-------------------|--|
| Liquidous temperature (T _L) | 217°C | |
| Time at liquidous (t∟) | 60 - 150 Seconds | |
| Peak package body temperature (T _P) | 260°C | |
| Time (t _P) within 5°C of the specified classification temperature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

--- End of Document ---

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