

为您的产品保驾护航

PRODUCT DATASHEET

Nano Fuses · Surface Mount

**JFC1206FS FAST ACTING FUSE**


### Description

JFC1206FS 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.

### Features

- 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

### Agency Approvals

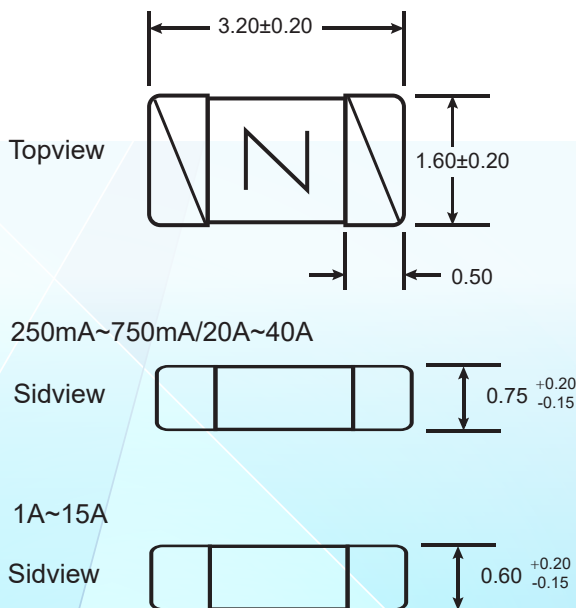
| Agency  | Agency File Number |
|---|--------------------|
|  | E486200            |

### Electrical Characteristics

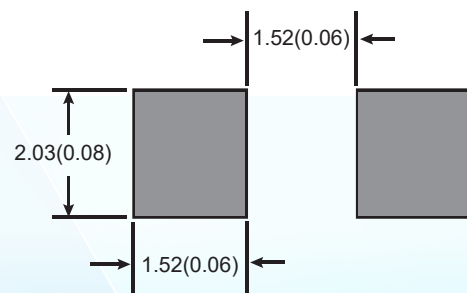
| Rated Current | 1.0In       | 2.5In      | 3.5In      |
|---------------|-------------|------------|------------|
| 250mA~5A      | 4 hour min. | 5 sec max. | -          |
| 6A~40A        |             | -          | 5 sec max. |

### Dimensions

Drawing not to scale (Unit: mm)



Recommended land pattern Unit: mm(inch)



**Performance Specification**

| Part No.       | Rated Voltage DC (V) | Rated Current (A) | Breaking Capacity <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> | Aplha Marking |      |    |
|----------------|----------------------|-------------------|--------------------------------|--|---------------------------|---|---------------|------|----|
| JFC1206-0250FS | 72                   | 0.25              | 50A@72Vdc                      | 3608   | 1407                      | 0.0004  | .25           |      |    |
| JFC1206-0375FS |                      | 0.375             |                                | 1882   | 718                       | 0.0008  | E             |      |    |
| JFC1206-0500FS |                      | 0.50              |                                | 1028   | 650                       | 0.0019  | B             |      |    |
| JFC1206-0750FS |                      | 0.75              |                                | 601  | 616                       | 0.0057  | .75           |      |    |
| JFC1206-1100FS |                      | 63                |                                | 1.0  | 50A@63Vdc                 | 490   | 510           | 0.10 | H  |
| JFC1206-1150FS |                      | 32                |                                | 1.5  | 150A@32Vdc                | 240   | 367           | 0.15 | K  |
| JFC1206-1200FS |                      | 24                |                                | 2.0  | 300A@24Vdc                | 132   | 316           | 0.41 | N  |
| JFC1206-1250FS |                      | 2.5               |                                | 77   | 240                       | 0.65  | O             |      |    |
| JFC1206-1300FS |                      | 3.0               |                                | 48   | 187                       | 1.39  | P             |      |    |
| JFC1206-1350FS |                      | 3.5               |                                | 40   | 180                       | 1.68  | R             |      |    |
| JFC1206-1400FS |                      | 4.0               |                                | 35   | 173                       | 1.73  | S             |      |    |
| JFC1206-1450FS |                      | 4.5               |                                | 30   | 164                       | 2.62  | X             |      |    |
| JFC1206-1500FS |                      | 32                |                                | 5.0  | 150A@32Vdc                | 25  | 141           | 2.89 | T  |
| JFC1206-1600FS | 24                   |                   | 6.0                            | 300A@24Vdc                                   | 16.5                      | 142   | 11.0          | F    |    |
| JFC1206-1700FS | 7.0                  | 12                | 140                            | 12.5   | 7                         |   |               |      |    |
| JFC1206-1800FS | 24                   | 8.0               | 150A@32Vdc                     | 8.5  | 110                       | 14.0  | M             |      |    |
| JFC1206-2100FS |                      | 10                |                                | 6.8  | 100                       | 20.0  | U             |      |    |
| JFC1206-2120FS |                      | 12                |                                | 5.0  | 85                        | 11.5  | 12            |      |    |
| JFC1206-2150FS |                      | 32                |                                | 15   | 300A@24Vdc                | 3.9   | 78            | 16.5 | 15 |
| JFC1206-2200FS |                      | 20                |                                | 1.8  | 60                        | 47.17   | 20            |      |    |
| JFC1206-2250FS |                      | 25                |                                | 1.6  | 90                        | 60  | L             |      |    |
| JFC1206-2300FS |                      | 30                |                                | 1.3  | 90                        | 100   | Z             |      |    |
| JFC1206-2400FS |                      | 32                |                                | 40   | 200A@32Vdc                | 0.85  | 95            | 160  | XL |
|                | 24                   | 200A@24Vdc        |                                |  |                           |   |               |      |    |

\* Typical Pre-arcing I<sup>2</sup>t are measured at 10In Current

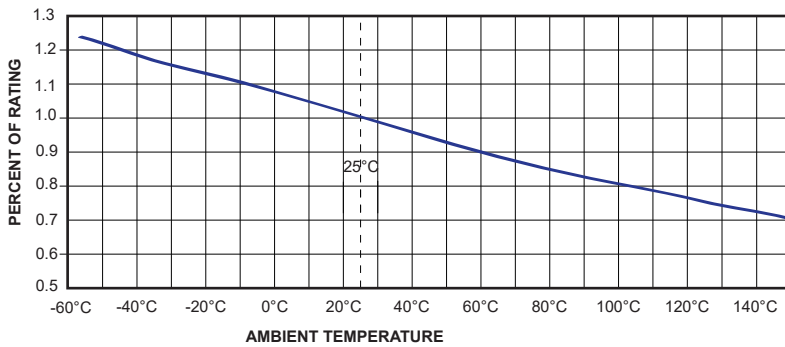
\* DC Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source)

\* DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25°C

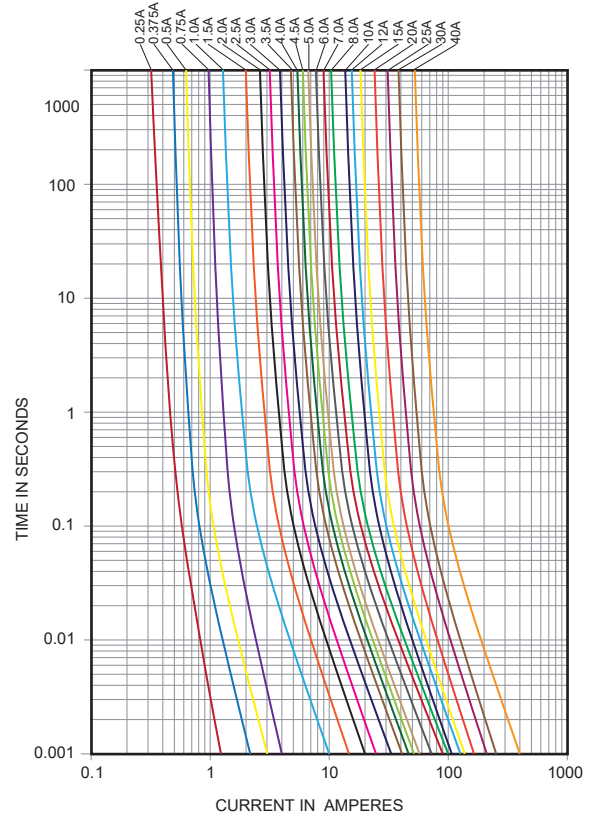
## Environmental Characteristic

- Normal ambient temperature: 23+/-3°C
- Operating temperature: -55 ~ 150°C, with proper correction factor applied

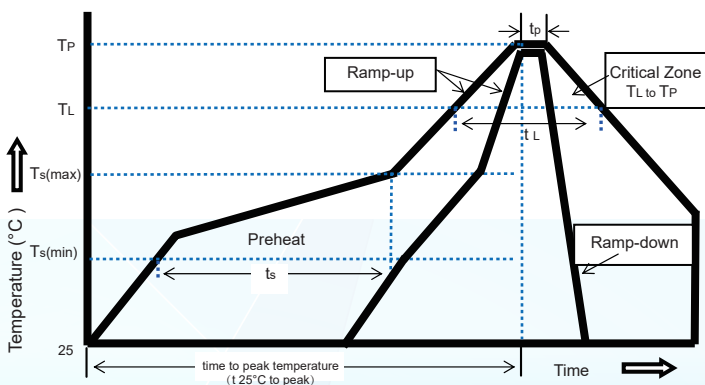
### Temperature Derating Curve



### Average Time-Current Curve



## Recommended Soldering Parameters



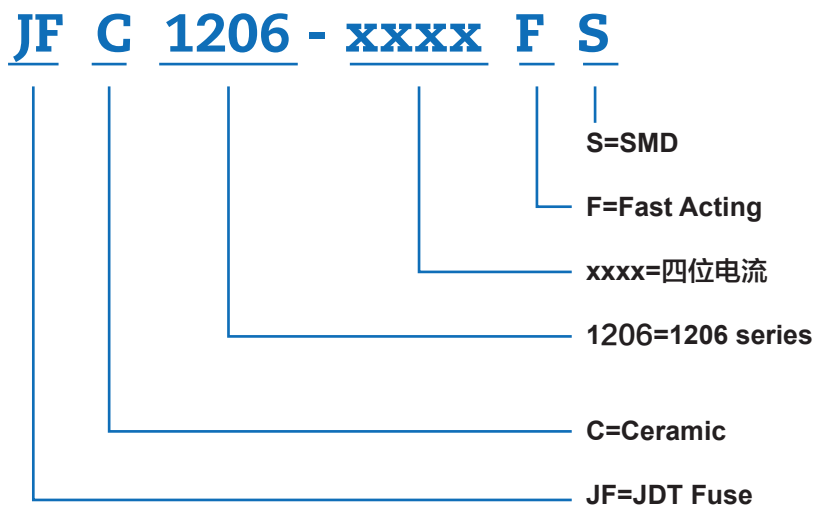
| Soldering Method |                       | Parameter   |
|------------------|-----------------------|-------------|
| Wave solder      | Reservoir temperature | 260°C       |
|                  | Time in reservoir     | 10 Secs max |
| Infrared reflow  | Temperature           | 260°C       |
|                  | Time                  | 30 Secs max |

| Profile Feature   |  | Lead(Pb) free solder |
|---|--|----------------------|
| Preheat and soak  | Temperature min (T <sub>smin</sub> )               | 150°C                |
|   | Temperature max (T <sub>smax</sub> )               | 200°C                |
|   | Time (T <sub>smin</sub> to T <sub>smax</sub> )(ts) | 60-120 Secs          |
| Average ramp up rate T <sub>smax</sub> to T <sub>p</sub>  |  | 3°C/Secs Max         |
| Liquidous temperature(T <sub>L</sub> )  |  | 217°C                |
| Time at liquidous(t <sub>L</sub> )  |  | 60-150 Secs          |
| Peak package body temperature (T <sub>P</sub> )   |  | 260°C                |
| Time (t <sub>P</sub> ) within 5°C of the specified calssification temperaturea(T <sub>c</sub> ) |  | 30 Secs              |
| Average ramp-down rate (T <sub>P</sub> to T <sub>smax</sub> )                                   |  | 6°C/Secs Max         |
| Time (25°C to Peak Temperature)   |  | 8 Minutes Max        |

### Packing

| No.       | Quantity &Packaging Code   |
|-----------|--|
| JFC1206FS | 3000 fuses/reel<br>8mm tape-and-reel on a 7 inch (178mm) reel per EIA Standard 481 |

### Part Numbering System



### Others

- If in use beyond the requirements of the specifications, must pass through the mutual confirmation !
- If the specification is not appropriate, must through consultation between the two sides and by the company to modify.
- It could be in conformance with another file which made by our company.