



为您的产品保驾护航

PRODUCT DATASHEET

Nano Fuse · Surface Mount


JFC2410 快断



### SCOPE

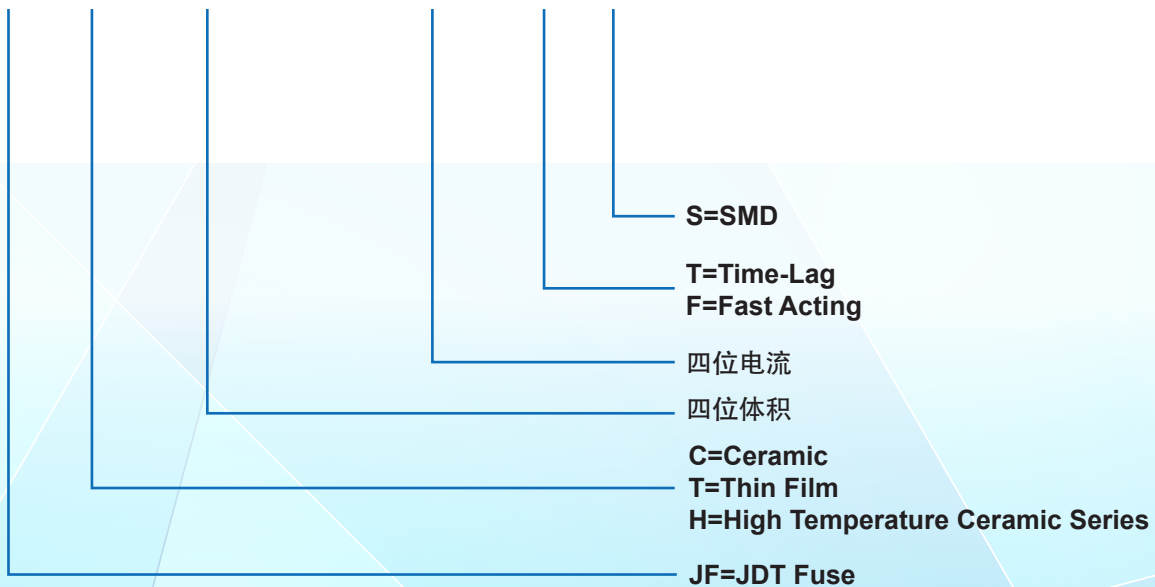
- Notebook PC
- LCD/PDF TV
- LCD/PDP panel
- LCD monitor
- LCD backlight inverter
- Portable DVE player
- Power supply
- Networking
- PC server
- Cooling fan system
- Storage system
- Telecom system
- Wireless base station
- White goods
- Game console
- Automotive
- Battery charging circuit
- Office Automation
- Industrial equipment
- Medical equipment

### Agency Approvals

| AGENCY  | AGENCY FILE NUMBER |
|---|--------------------|
|  | E486200            |

### PART NUMBERING

**JF C xxxx - xxxx F S**



### RATED CURRENT AND RATED VOLTAGE

- Rated Current 10mA—30A
- Rated Voltage 250V AC ( 20A-30A:72V AC )

### MARKING

The fuses shall have the following marking

- Manufacturing factory mark & logo :
  - Rated Current(A):\_mA / \_A
  - Electrical characteristics: F
- Note  
There is no provision on label size and position

### APPEARANCES AND CONFIGURATION

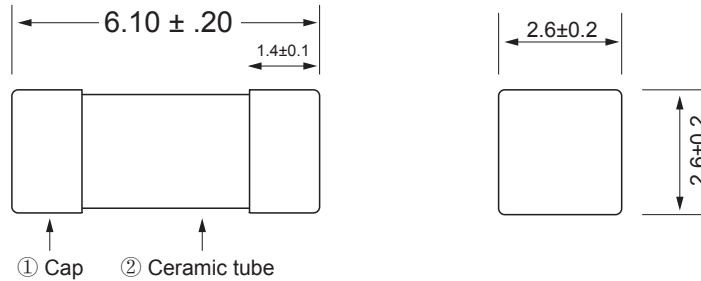
- Appearance : No significant stains, rust or crack, mark should be easy to recognize.
- Shape: Surface Mount Fuse

### Performance Specification

| Part Number    | Rated Current (A) | Max Voltage Rating(V) | Interrupting Rating | Nominal Cold Resistance (ohms) | Nominal Melting I <sup>2</sup> t (A <sup>2</sup> sec) |
|----------------|-------------------|-----------------------|---------------------|--------------------------------|---|
| JFC2410-0100FS | 0.10              | 250V                  | 50A@250V            | 3.1000                         | 0.00138   |
| JFC2410-0500FS | 0.50              |                       |                     | 0.4200                         | 0.0795  |
| JFC2410-0750FS | 0.75              |                       |                     | 0.2450                         | 0.185   |
| JFC2410-1100FS | 1.00              |                       |                     | 0.1530                         | 0.459   |
| JFC2410-1150FS | 1.50              |                       |                     | 0.0630                         | 0.853   |
| JFC2410-1200FS | 2.00              |                       |                     | 0.0367                         | 0.530   |
| JFC2410-1250FS | 2.50              |                       |                     | 0.0286                         | 1.029   |
| JFC2410-1300FS | 3.00              |                       |                     | 0.0227                         | 1.650   |
| JFC2410-1350FS | 3.50              |                       |                     | 0.0200                         | 2.469   |
| JFC2410-1400FS | 4.00              |                       |                     | 0.0160                         | 3.152   |
| JFC2410-1500FS | 5.00              |                       |                     | 0.0125                         | 5.566   |
| JFC2410-1600FS | 6.00              |                       |                     | 0.0108                         | 8.670   |
| JFC2410-1630FS | 6.30              |                       |                     | 0.0096                         | 9.170   |
| JFC2410-1700FS | 7.00              |                       |                     | 0.0090                         | 10.32   |
| JFC2410-1800FS | 8.00              |                       |                     | 0.0077                         | 20.23   |
| JFC2410-2100FS | 10.0              |                       |                     | 0.0056                         | 26.46   |
| JFC2410-2120FS | 12.0              |                       |                     | 0.0049                         | 47.97   |
| JFC2410-2150FS | 15.0              | 0.0037                | 97.82               |                                |   |
| JFC2410-2200FS | 20.0              | 72V                   | 500A@72V            | 0.0023                         | 210   |
| JFC2410-2250FS | 25.0              |                       |                     | 0.0017                         | 400   |
| JFC2410-2300FS | 30.0              |                       |                     | 0.0012                         | 900   |

**OUTLINE DRAWING AND STRUCTURE**

- Outline Drawing and dimensions (unit : mm)



- Structure

| NO. | Component | Material            | Quantity |
|-----|-----------|---------------------|----------|
| ①   | Cap       | Silver Plated Brass | 2        |
| ②   | Body      | Ceramic tube        | 1        |

**PRODUCT CHARACTERISTICS**

| No. | Item                         | Contain  | Reference standard                         |
|-----|------------------------------|--|--|
| 1   | Insulation Resistance        | 10,000 ohms minimum                                    | MIL-STD-202G, Method 302 Test Condition A  |
| 2   | Solderability                | T=235°C ± 5°C, t=5+0/-0.5s, Cover ≥ 95%                | MIL-STD-202G, Method 208H                  |
| 3   | Resistance to Soldering Heat | 10 sec at 260°C  | MIL-STD-202G, Method 210F Test Condition B |
| 4   | Thermal Shock                | 5 cycles, -65°C to 125°C, 15 minutes @ each extreme    | MIL-STD-202G, Method 107G Test Condition B |
| 5   | Mechanical Shock             | 100G's peak for 6 milliseconds, 3 cycles               | MIL-STD-202G, Method 213B Test 1           |
| 6   | Vibration                    | 0.03" amplitude, 10-55 Hz in 1 min. 2hrs each XYZ=6hrs | MIL-STD-202G, Method 201A                  |
| 7   | Moisture Resistance          | 10 cycles  | MIL-STD-202G, Method 106G                  |
| 8   | Salt spray                   | 48hrs  | MIL-STD-202G, Method 101E Test Condition B |

**ELECTRICAL CHARACTERISTICS**

- Pre-Arcing Time / Current Characteristics:

| Ampere Rating | % of Ampere Rating | Opening Time     |
|---------------|--------------------|------------------|
| 10mA – 30A    | 100%               | 4 hours, Minimum |
|               | 200%               | 5 sec, Maximum   |

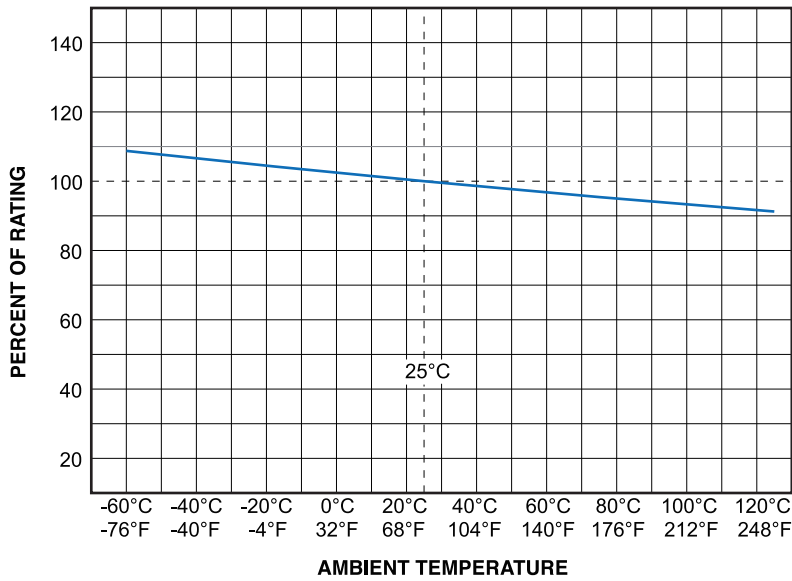
- Breaking Capacity

10mA-15A : 50A@250V AC/50A@125V AC  
 20A-30A:500A@72V AC

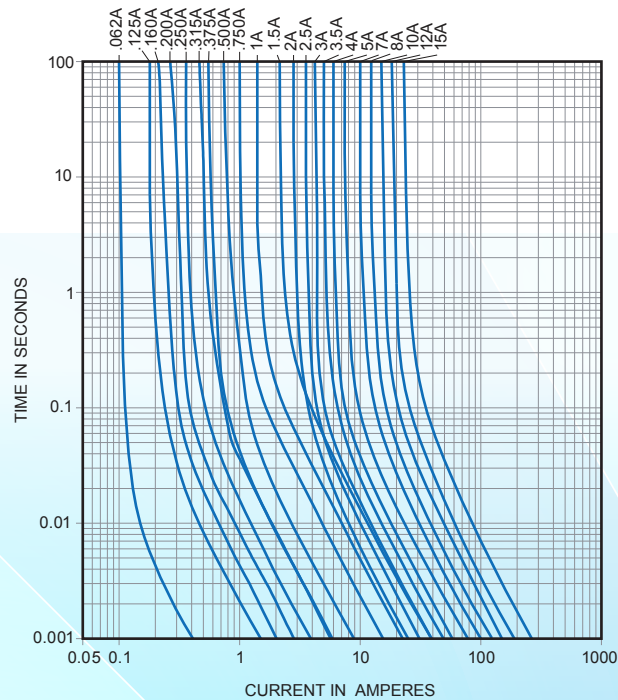
**ENVIRONMENTAL CHARACTERISTIC**

- Operating temperature range : -55℃ to 125℃
- Company operating temperature of the environment more than 25+/-5℃ , in the selection of fuse specifications, it needs to consider the impact of the operating environment of the temperature fuse. Photo: temperature derating curve.

**Temperature Derating Curve**

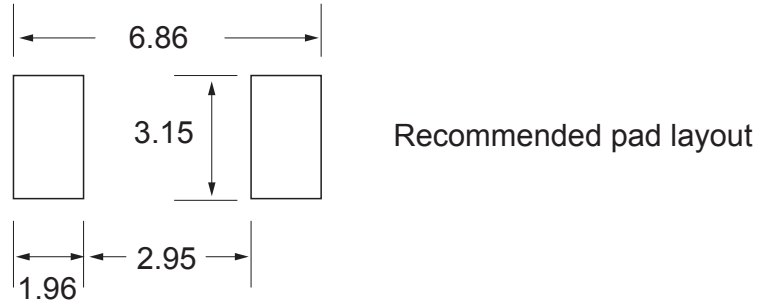


**Average Time-Current Curve**

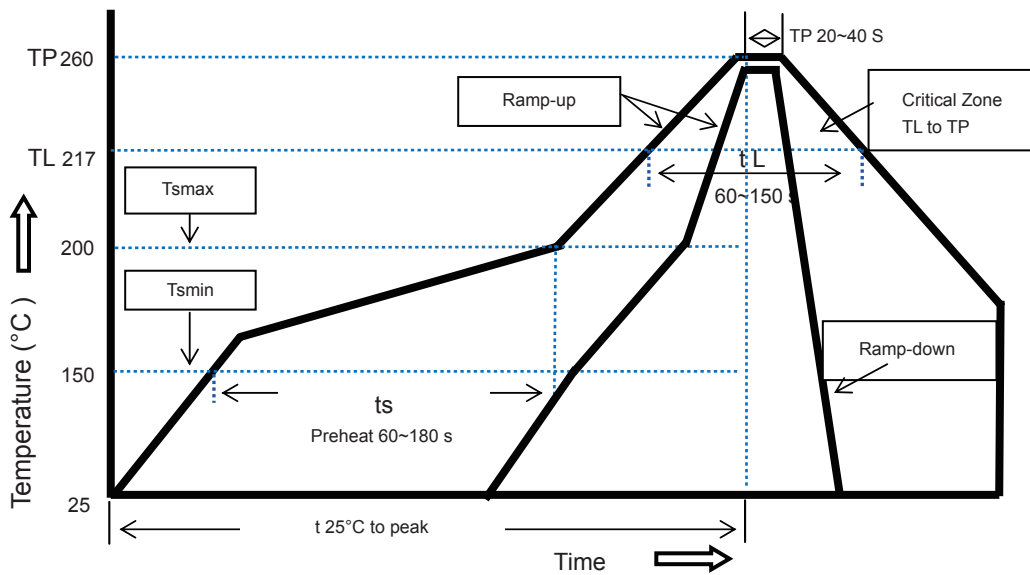


### INSTALLATION WAY AND PARAMETERS

- Propose that the following picture installation way is installed and satisfied the required size.



- Recommended Customer Soldering Parameters



|            | Reflow Condition           | Pb-Free assembly |
|------------|----------------------------|------------------|
| Preheating | Temperature Min Ts(min)    | 150 C            |
|            | Temperature Max Ts(man)    | 200 C            |
|            | Time Max                   | 120 secs         |
| Soldering  | Temperature (TL)(Liquidus) | 260 C            |
|            | Time Max (TL)              | 60 secs          |
|            | Temperature (TP)           | Max 260 C        |
|            | Time Max (TP)              | 10 secs          |

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### OTHER NOTICE IN USED

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- It could be in conformance with another file which made by our company.

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### PACKING

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- Packing Quantity
- 1000 fuses each disc

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### OTHERS

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- 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.

## X-ON Electronics

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[0308.375UR](#) [0308.500UR](#) [0308.750UR](#) [0308001.UR](#) [030801.5UR](#) [F0603G0R03FNTR](#) [SKY87604-12](#) [SKY87604-11](#) [SKY87604-13](#)  
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[CF06V3T2R50](#) [06H1300D](#) [JFC0603-1200FS](#) [CP06V3T2R0](#) [06F-0200L1](#)