

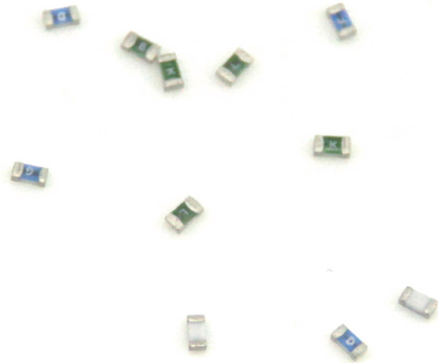


为您的产品保驾护航

PRODUCT DATASHEET

Nano Fuses · Surface Mount

JFC0603FS FAST ACTING FUSE




Descriptions

JFC0603FS Series are fast acting fuse, The chip fuses set the industry standard for performance, reliability and quality. The solder-free design provides excellent on-off and temperature cycling characteristics and also makes our chip fuses more heat and shock tolerant than typical subminiature fuses.

Features

- Compatible with reflow and wave solder
- Excellent environmental integrity
- One time positive disconnect
- Lead Free and Halogen free material

Agency Approvals

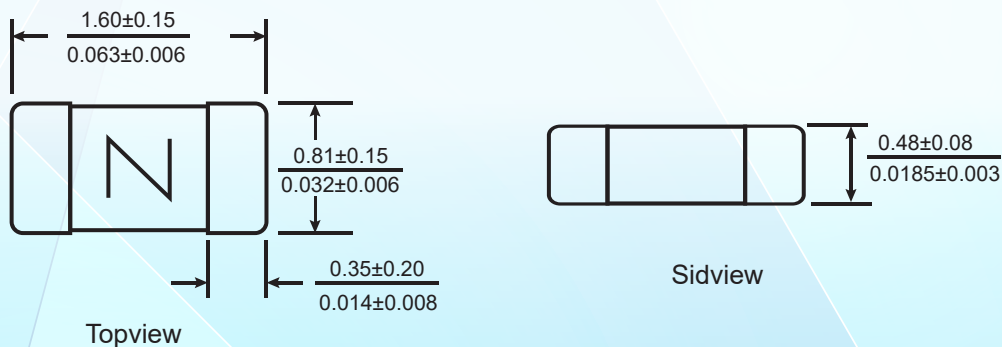
| AGENCY | AGENCY FILE NUMBER |
|--|--------------------|
|  | E486200 |

Electrical Characteristics

| Rated Current | 1.0Ih | 2.5Ih |
|---------------|------------|-----------|
| 250mA~8A | 4 hour min | 5 sec max |

Dimensions

Drawing not to scale (Unit:mm/inch)



Performance Specification

| Part No. | Rated Voltage DC | Rated Current (A) | Breaking Capacity ¹ | Typical Cold Resistance (mOhms) ² | Typical Voltage Drop (mV) | Typical Pre-Arching I ² t (A ² Sec) ³ | Alpha Marking |
|----------------|------------------|-------------------|--------------------------------|--|---------------------------|--|---------------|
| JFC0603-0250FS | 32V | 0.250 | 50A | 3250 | 893 | 0.00042 | D |
| JFC0603-0375FS | | 0.375 | | 1800 | 587 | 0.00093 | E |
| JFC0603-0500FS | | 0.500 | | 1070 | 582 | 0.001 | F |
| JFC0603-0750FS | | 0.750 | | 470 | 427 | 0.009 | G |
| JFC0603-1100FS | | 1 | | 250 | 335 | 0.011 | B |
| JFC0603-1150FS | | 1.5 | | 150 | 270 | 0.045 | H |
| JFC0603-1200FS | | 2 | | 78 | 160 | 0.115 | K |
| JFC0603-1250FS | | 2.5 | | 49 | 145 | 0.14 | L |
| JFC0603-1300FS | | 3 | | 35 | 130 | 0.21 | O |
| JFC0603-1350FS | | 3.5 | | 28 | 130 | 0.50 | R |
| JFC0603-1400FS | | 4 | | 18 | 120 | 0.56 | S |
| JFC0603-1500FS | | 5 | | 14 | 110 | 1.2 | T |
| JFC0603-1600FS | | 6 | | 11 | 110 | 1.7 | V |
| JFC0603-1700FS | | 7 | | 9.5 | 80 | 2.3 | X |
| JFC0603-1800FS | | 8 | | 7.0 | 75 | 3.0 | Z |

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

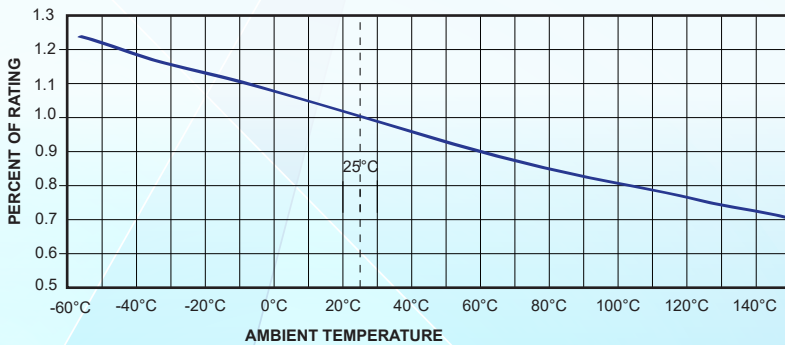
* DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25degrees

* Typical Pre-arching I²t are measured at 10In Current

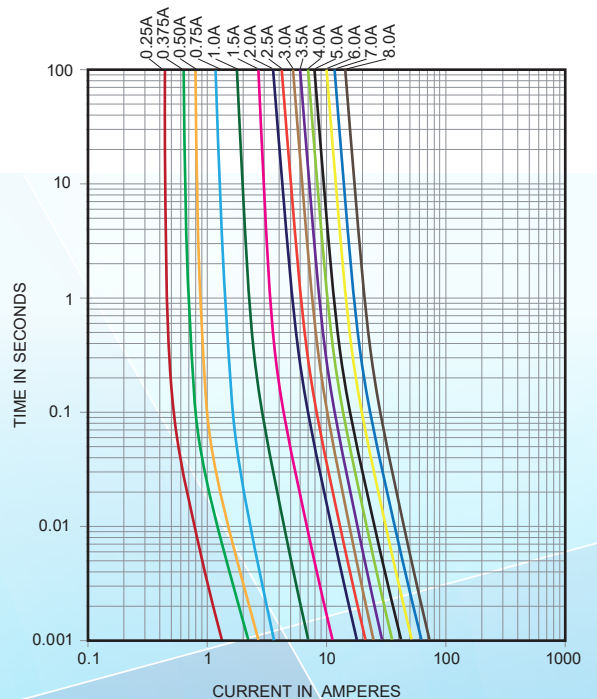
Environmental Characteristic

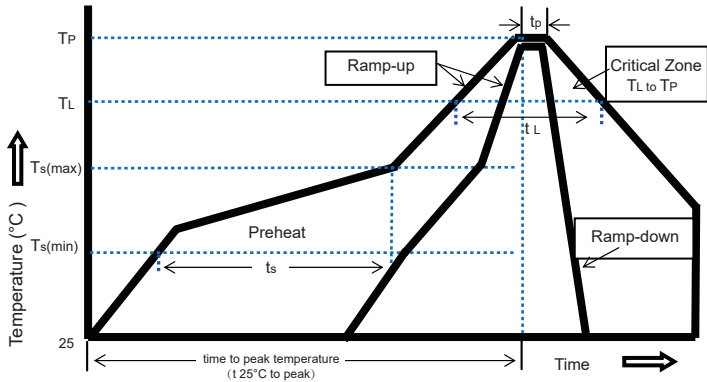
- Normal ambient temperature: 23+/-3°C
- Operating temperature: -55 ~ 150°C, with proper correction factor applied

Temperature Derating Curve



Average Time-Current Curve



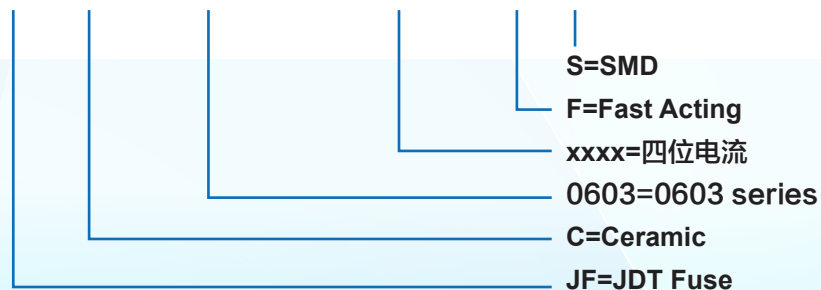
Recommended Soldering Parameters


| Profile Feature | | Lead(Pb) free solder |
|---|--|----------------------|
| Preheat and soak | Temperature min (T_{smin}) | 150°C |
| | Temperature max (T_{smax}) | 200°C |
| | Time (T_{smin} to T_{smax})(t_s) | 60-120 Secs |
| Average ramp up rate T_{smax} to T_p | | 3°C/Secs Max |
| Liquidous temperature(T_L) | | 217°C |
| Time at liquidous(t_L) | | 60-150 Secs |
| Peak package body temperature (T_p) | | 260°C |
| Time (t_p) within 5°C of the specified calssification temperaturea(T_c) | | 30 Secs |
| Average ramp-down rate (T_p to T_{smax}) | | 6°C/Secs Max |
| Time (25°C to Peak Temperature) | | 8 Minutes Max |

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

Packing

| No. | Quantity &Packaging Code |
|-----------|--|
| JFC0603FS | 5000 fuses/reel 8mm tape-and-reel on a 7 inch (178mm) reel per EIA Standard 481 |

Part Numbering System
JF C 0603 - xxxx F S

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.