

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

S=SMD

T=Time-Lag

F=Fast Acting

四位电流

四位体积

C=Ceramic

T=Thin Film

H=High Temperature Ceramic Series

JF=JDT Fuse

JFC2410 快断

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

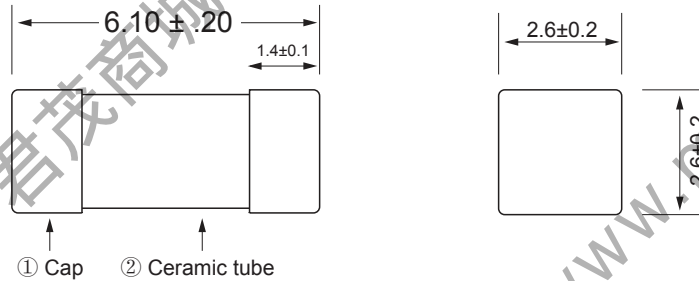
- Appearance : No significant stains, rust or crack, mark should be easy to recognize.
- Shape: Surface Mount Fuse

Performance Specification

Part Number	Rated Current (A)	Max Voltage Rating(V)	Interrupting Rating	Nominal Cold Resistance (ohms)	Nominal Melting I ² t (A ² 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℃±5℃, t=5+0/-0.5s, Cover ≥ 95%	MIL-STD-202G, Method 208H
3	Resistance to Soldering Heat	10 sec at 260℃	MIL-STD-202G, Method 210F Test Condition B
4	Thermal Shock	5 cycles, -65℃ to 125℃, 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

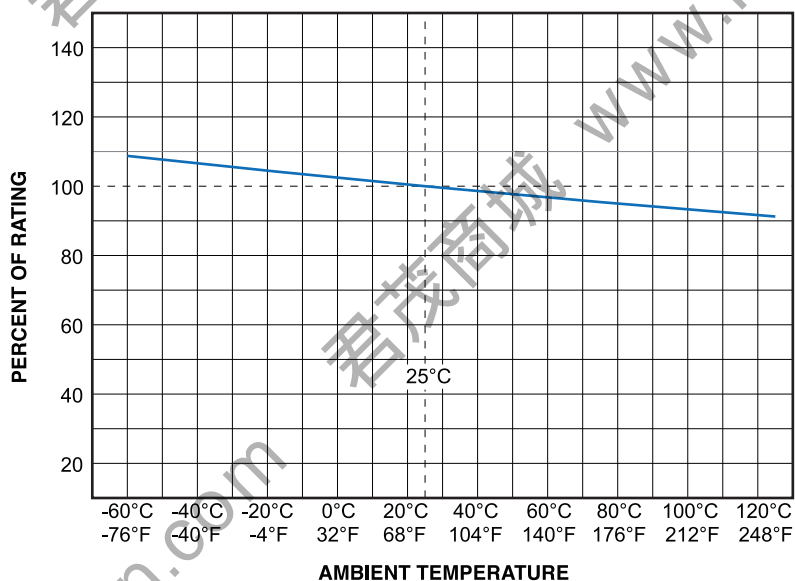
- Breaking Capacity

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

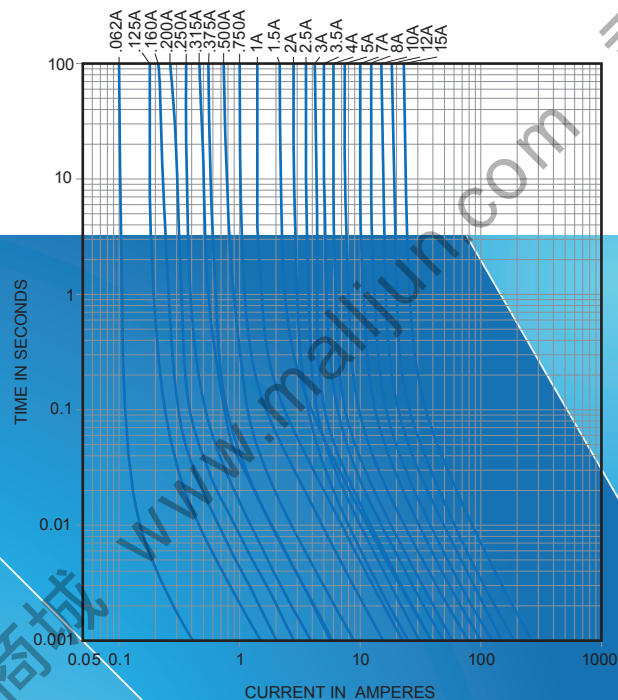
ENVIRONMENTAL CHARACTERISTIC

- Operating temperature range : -55°C to 125°C
- Company operating temperature of the environment more than $25\pm 5^{\circ}\text{C}$, 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

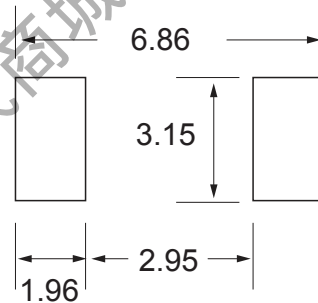


Average Time-Current Curve



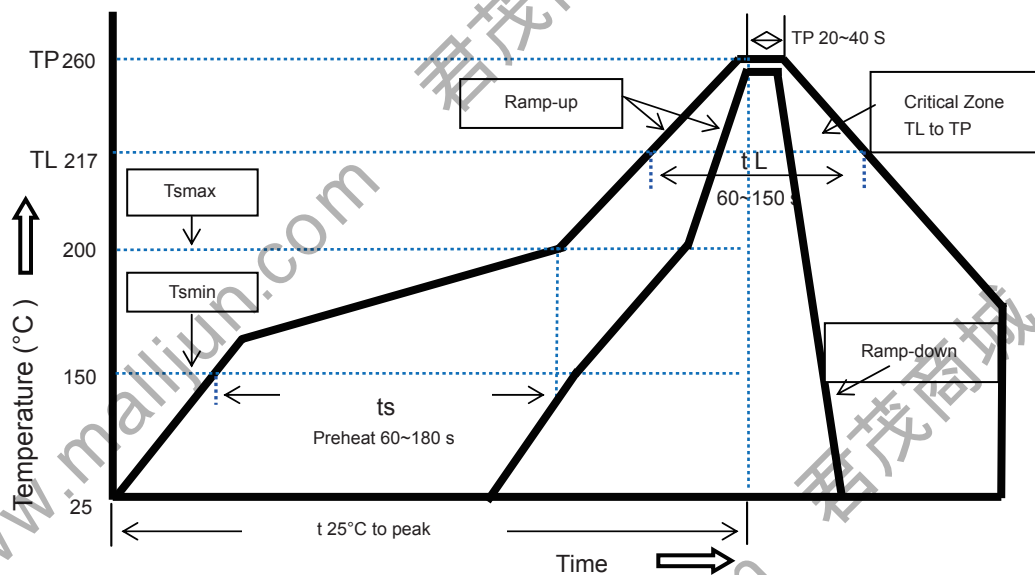
INSTALLATION WAY AND PARAMETERS

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



Recommended pad layout

- Recommended Customer Soldering Parameters



	Reflow Condition	Pb-Free assembly
Preheating	Temperature Min Ts(min)	150 °C
	Temperature Max Ts(max)	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

OTHER NOTICE IN USED

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

PACKING

- Packing Quantity
- 1000 fuses each disc

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.