集电通
JDT FUSE
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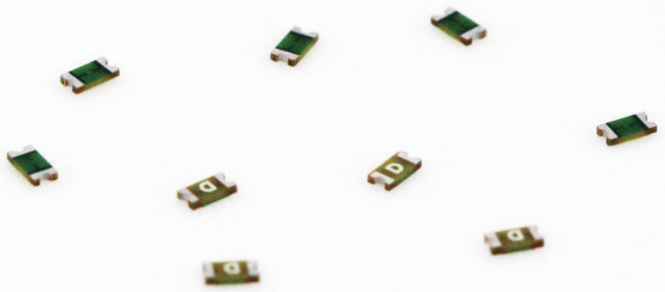
PRODUCT DATASHEET

Nano Fuse · Surface Mount

JFC0603HFS Series Fuse



Description

The JFC0603HFS Series ultra Fast-Acting fuse, It ultra small (0603size) thin-film device designed for secondary protectionof circuits used in space constrained applications suchas hand-held portable electronic devices. This seriesis 100% lead-free and meets the requirements of theRoHS directive.

Agency Approvals

AGENCY	AGENCY FILE NUMBER
	E486200

Features

- Compatible with lead-free solders and higher temperature profiles.
- High performance materials provide improved performance in elevated ambient temperature applications.
- Marked on top surface with code to allow amp rating identification without testing.
- Low profile for height sensitive applications.
- Flat top surface for pick-and-place operations.
- Element covering material is resistant to industry standard cleaning operations.
- Alloy based element construction provides
- superior inrush withstand characteristics (I^2t) over ceramic or glass based 0603 fuse products.

Electrical Characteristics

% of Ampere Rating	Opening Time at 25°C
100%	4 hours,Min.
200%	5 sec.,Max.
300%	0.2 sec.,Max.

Applications

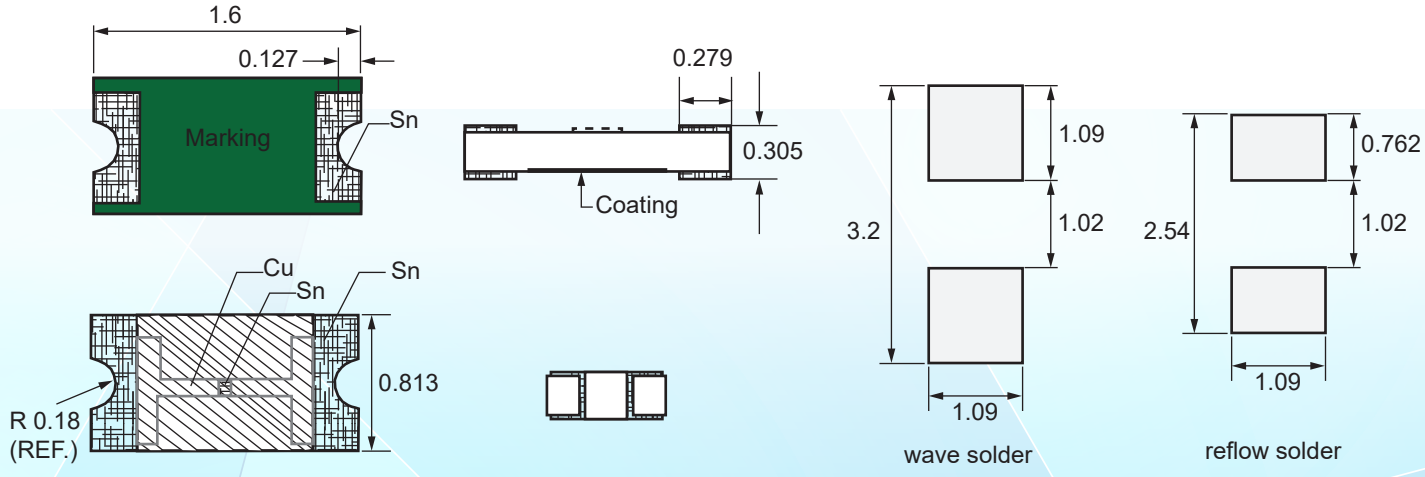
- Cell phones
- Battery packs
- Digital cameras
- DVD players
- Hard disk drives

Performance Specification

Part Number	Marking	Ampere Rating (A)	Max Voltage Rating (V)	Interrupting Rating	Nominal Cold Resistance (ohms)	Nominal Melting I^2t (A^2sec)	Nominal Voltage Drop (mV)	Nominal Power Dissipatioon (W)
JFC0603-0250HFS	D	0.25			0.551	0.0026	158.56	0.0396
JFC0603-0375HFS	E	0.375			0.318	0.0050	128.03	0.0480
JFC0603-0500HFS	F	0.50		50A @32 VAC/DC	0.192	0.0083	115.71	0.0579
JFC0603-0750HFS	G	0.75			0.124	0.017	107.33	0.0805
JFC0603-1100HFS	H	1.00			0.076	0.021	89.10	0.0891
JFC0603-1125HFS	J	1.25		35A@32 VAC/DC 13A@65VDC	0.057	0.051	84.32	0.1054
JFC0603-1150HFS	K	1.50	32V		0.043	0.076	81.14	0.1217
JFC0603-1175HFS	L	1.75			0.036	0.09	78.75	0.1378
JFC0603-1200HFS	N	2.00			0.034	0.11	78.22	0.1564
JFC0603-1250HFS	O	2.50			0.025	0.14	76.10	0.1903
JFC0603-1300HFS	P	3.00		35A@32 VAC/DC	0.019	0.24	75.04	0.2251
JFC0603-1350HFS	R	3.50			0.017	0.43	74.25	0.2599
JFC0603-1400HFS	S	4.00			0.016	0.57	73.72	0.2949
JFC0603-1500HFS	T	5.00			0.010	0.86	72.71	0.3635

Dimensions

Dimensions:Unit(mm)



Product Characteristics

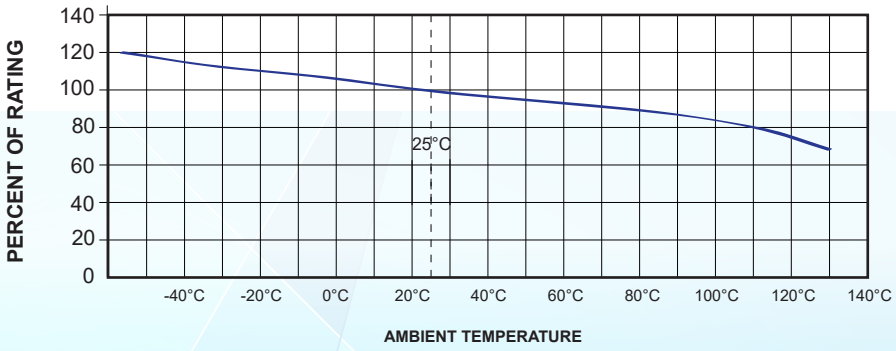
Component	Material
Body	Advanced High Temperature Substrate
Terminations	100% Tin over Nickel over Copper
Element Cover Coat	Conformal Coating

No.	Item	Contain and Reference standard
1	Insulation Resistance(after Opening)	Great than 10,000 ohms.
2	Vibration	Per MIL-STD-202F
3	Thermal Shock	Withstands 5 cycles of – 50°C to 125°C
4	Humidity	MIL-STD-202F,Method 103B, Condition D

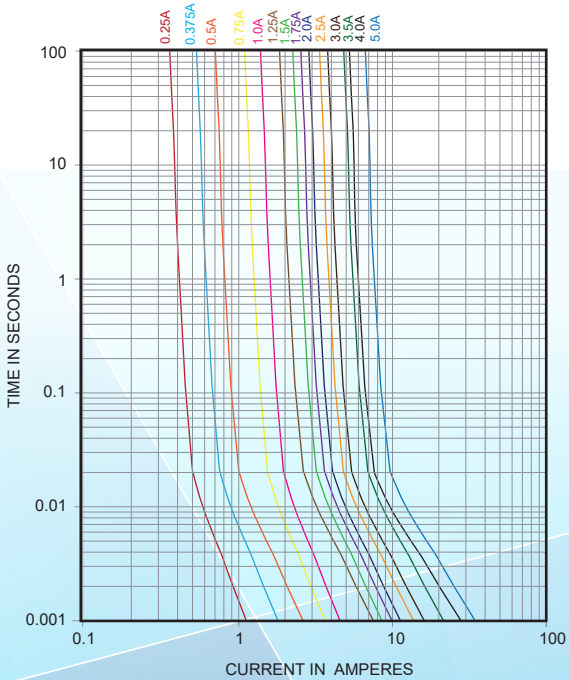
Environmental Characteristic

- Operating temperature range : -55°C to 90°C
- Derating depicted in this in addition to the standard derating of 25% for continuous operation.

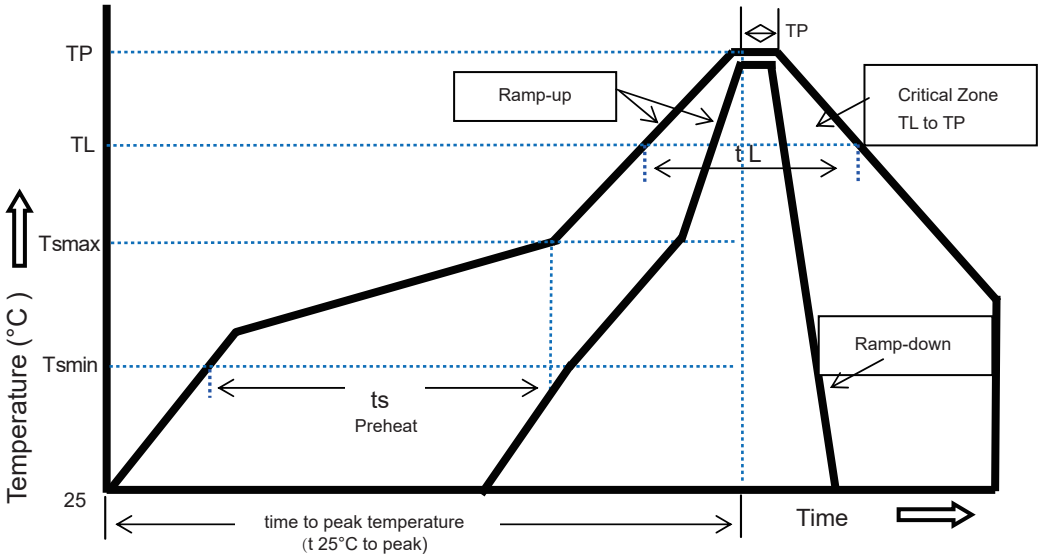
Temperature Derating Curve



Average Time-Current Curve



Soldering Parameters



Reflow Condition		Pb-Free assembly
Pre Heat	Temperature Min Ts(min)	150°C
	Temperature Max Ts(man)	200°C
	Time Min to Max (Ts)	60-180 secs
Reflow	Temperature (TL)(Liquidus)	217°C
	Time Max (TL)	60-150 seconds
Average ramp up rate (Liquidus Temp(TL) to peak)		5°C/seconds max
Ts(max)to TL-Ramp-up Rate		5°C/seconds max
Peak Temperature(Tp)		250 + 0/-5°C
Time within 5°C of actual peak Temperature(tp)		20-40 seconds
Ramp-dowm Rate		5°C/seconds max
Time 5°C ot peak Temperature(tp)		8 minutes max
Do not exceed		260°C

Wave Solding	260°C,10 seconds max.

Part Numbering

JFC 0603 - xxxx HF S

- S=SMD
- HF=超快断
- Rate current
- 0603 Series
- JFC=JDT Fuse

Packaging

Packaging Option	Quantity
8mm Tape and Reel	5000 pcs/reel

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.