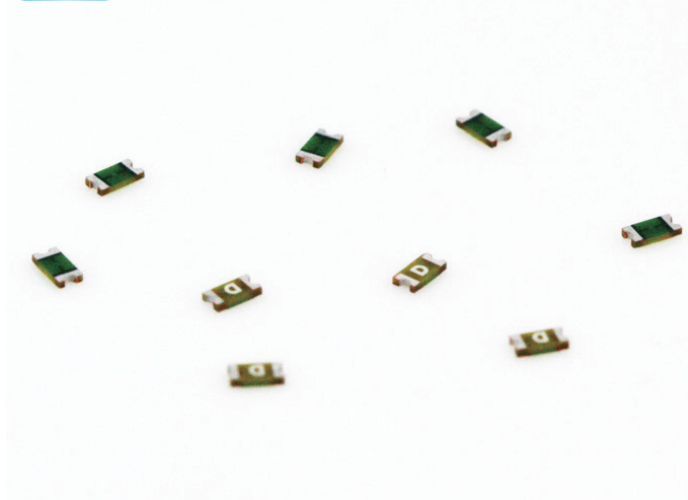


为 您 的 产 品 保 驾 护 航

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 protection of circuits used in space constrained applications such as hand-held portable electronic devices. This series is 100% lead-free and meets the requirements of the RoHS 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

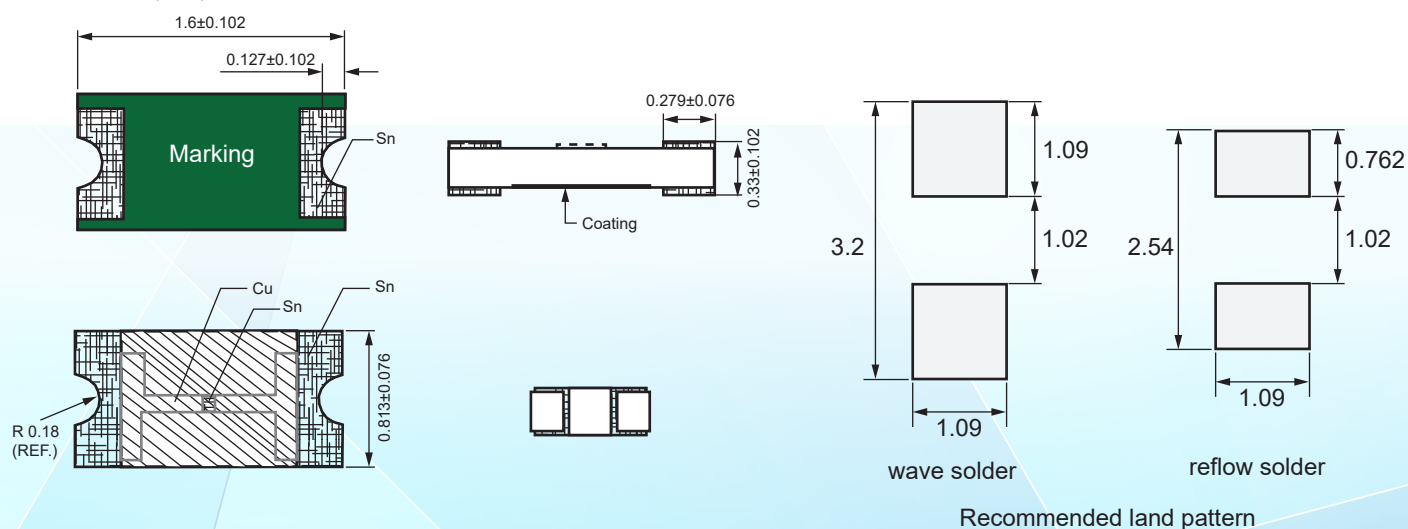
- Cell phones
- Battery packs
- Digital cameras
- DVD players
- Hard disk drives

Performance Specification

Part Number	Marking	Ampere Rating (A)	Max Voltage Rating (V)	Interrupting Rating	Nominal Cold Resistance (ohms)	Nominal Melting I ² t (A ² sec)	Nominal Voltage Drop (mV)	Nominal Power Dissipation (W)
JFC0603-0250HFS	D	0.25	32V	50A @32 VAC/DC	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			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			0.043	0.076	81.14	0.1217
JFC0603-1175HFS	L	1.75		35A@32 VAC/DC	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			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

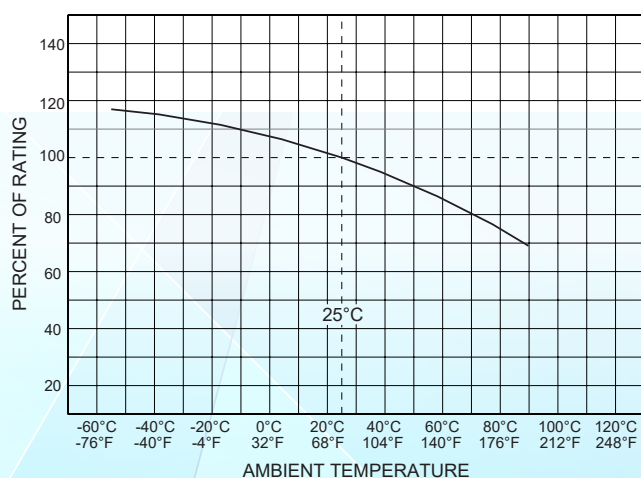
Component	Material
Body	Advanced High Temperature Substrate
Terminations	100% Tin over Nickel over Copper
Element Cover Coat	Conformal Coating

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

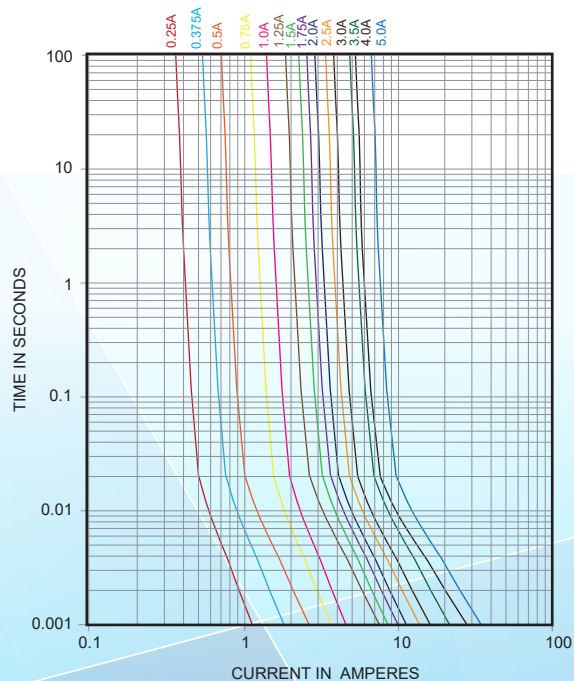
Environmental Characteristic

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

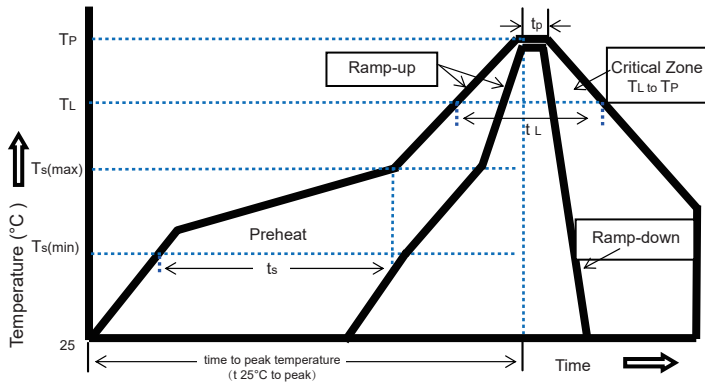
Temperature Derating Curve



Average Time-Current Curve



Soldering Parameters

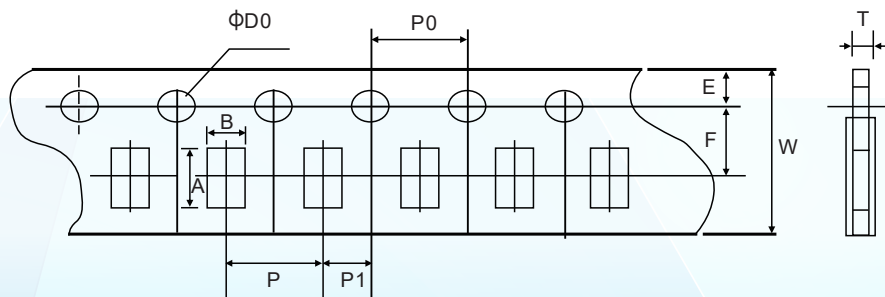


Soldering Method		Parameter
Wave solder	Reservoir temperature	260°C
	Time in reservoir	10 Secs max
Infrared reflow	Temperature	260°C
	Time	30 Secs max

Profile Feature		Lead(Pb) free solder
Preheat and soak	Temperature min (T_{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 classification temperature(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

Packaging

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



Type	A	B	W	F	E
Spec	1.85±0.10	1.10±0.10	8.00±0.10	3.50±0.05	1.75±0.10
Type	P	P0	P1	D0	T
Spec	4.00±0.10	4.00±0.10	2.00±0.05	1.50±0.10	0.65±0.10

(Unit: mm)

Part Numbering

JFC 0603 - xxxx HF S

S=SMD

HF=超快断

Rate current

0603 Series

JFC=JDT Fuse

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.