

INDIVIDUAL SPECIFICATION SHEET

Product Name: 0603 Fast Acting SMD Fuses 高分断

Part Number: F06FH Series

Revision: A



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Rev.	Effective Date	Changed Contents
A	2020-9-18	New Release

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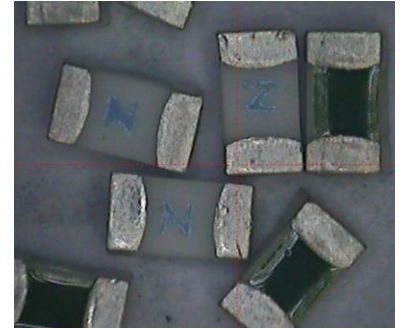
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Description

F06FH Series are the fuses set the industry standard for performance, reliability and quality. The solder-free design provides excellent on-off and temperature cycling characteristics during use and also makes our SMD fuses more heat and shock tolerant than typical subminiature fuses.



Electrical Characteristics		
Rated Current	1.0In	2.5In
250mA~5A	4 hour minimum	5 sec maximum

Features

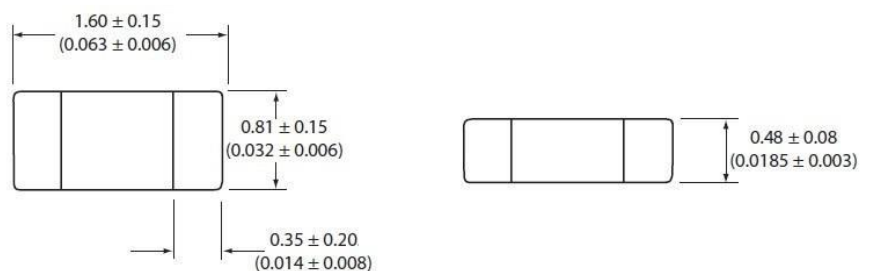
- AEC-Q200 Automotive Grade Certified
- Compatible with reflow and wave solder
- Excellent environmental integrity
- One time positive disconnect
- Lead Free and Halogen free material

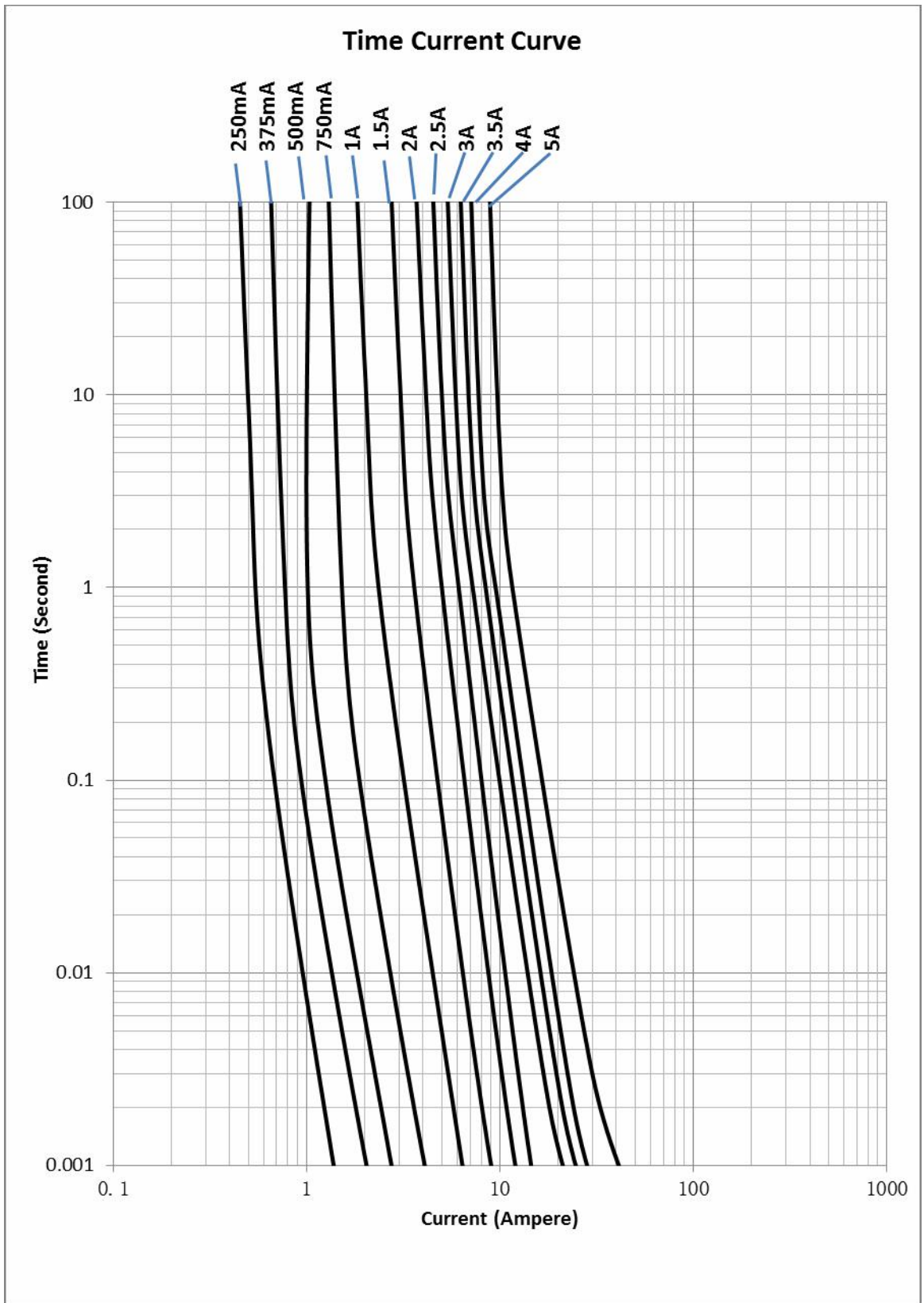
Specifications

Specification							
Part No.	Rated Voltage	Rated Current (A)	Breaking Capacity (A) ₁	Typical Cold Resistance (mOhms) ²	Typical Voltage Drop (mV)	Typical Pre-Arcing I ² t (A ² Sec) ³	Alpha Mark
	DC						
F06FH0.25	63V	0.250	50A	3250	893	0.0004	D
F06FH0.375		0.375	50A	1310	587	0.0009	E
F06FH0.5		0.500	50A	1070	582	0.001	F
F06FH0.75		0.750	50A	470	427	0.009	G
F06FH1		1	50A	230	335	0.01	H
F06FH1.5		1.5	50A	150	270	0.04	K
F06FH2		2	50A	72	160	0.115	N
F06FH2.5		2.5	50A	52	145	0.14	O
F06FH3		3	50A	35	130	0.28	P
F06FH3.5		3.5	50A	23.8	130	0.5	R
F06FH4		4	50A	21	120	0.6	S
F06FH5		5	50A	14	110	1.9	T

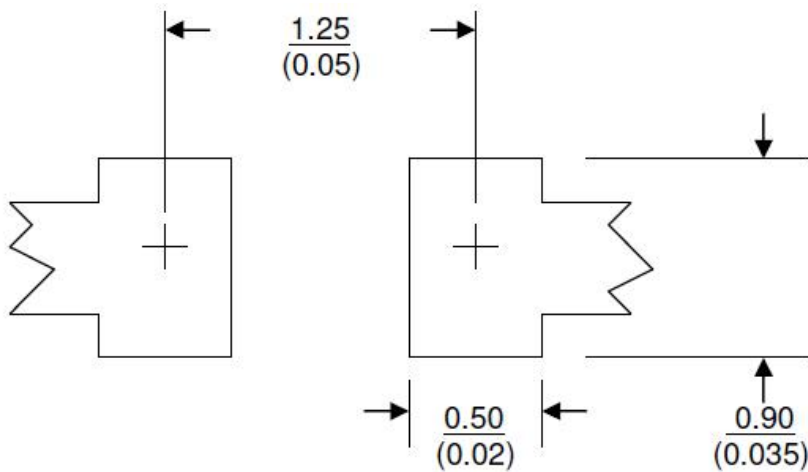
1. DC Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source)
 2. DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25degrees
 3. Typical Pre-arcing I²t are measured at 10In Current
- Specifications are subject to change without notice. Application testing is strongly recommended.

Dimension Drawing not to scale (Unit: mm/inch)





Recommended land pattern

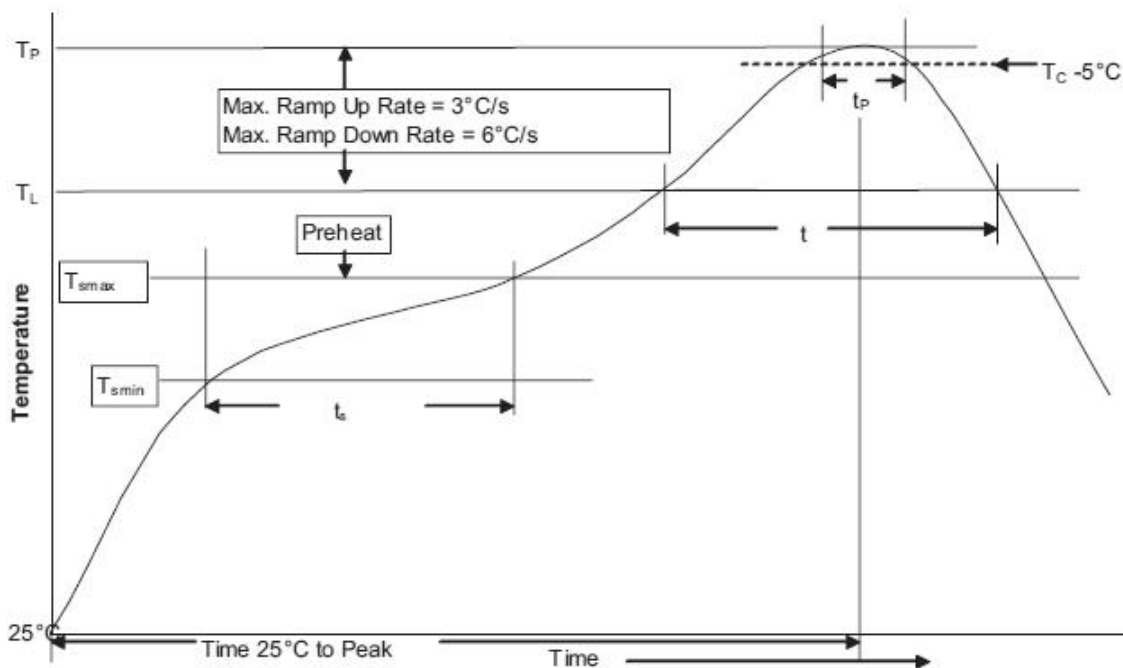


Unit: mm/inches

Soldering method

- Wave solder
 - Reservoir temperature: 260°C
 - Time in reservoir: 10 seconds maximum
- Infrared reflow
 - Temperature: 260°C
 - Time: 30 seconds maximum

Solder reflow profile

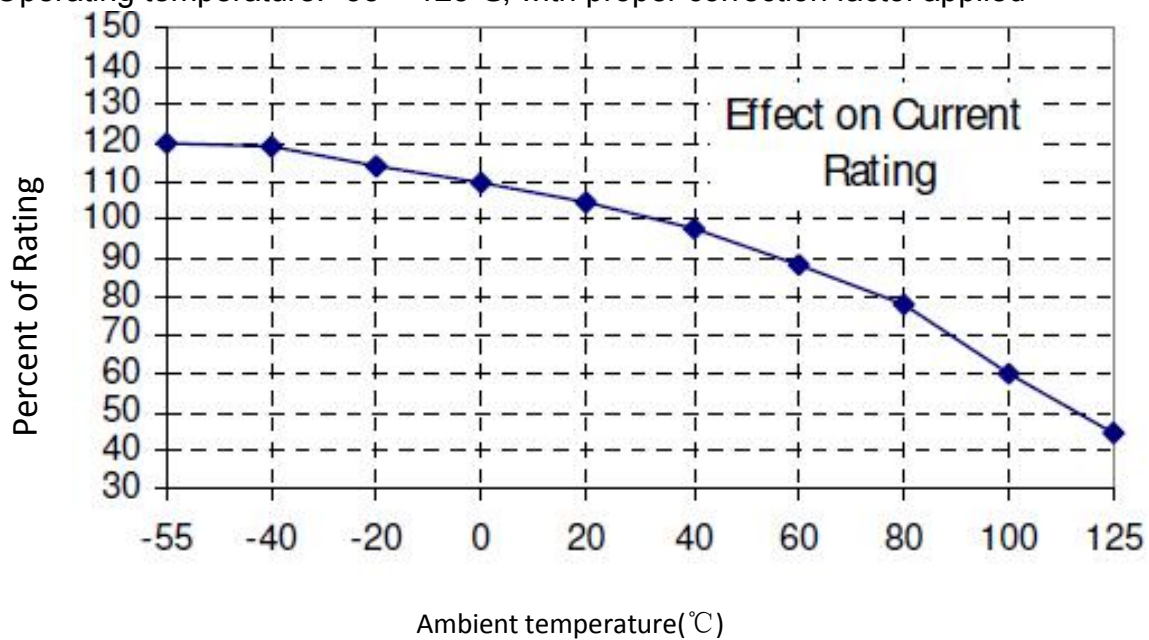


Profile Feature		Lead(Pb) free solder
Preheat and soak	<ul style="list-style-type: none"> • Temperature min.(T_{smin}) 	150°C
	<ul style="list-style-type: none"> • Temperature max. (T_{smax}) 	200°C
	<ul style="list-style-type: none"> • Time (T_{smin} to T_{smax}) (t_s) 	60 - 120 Seconds
Average ramp up rate T_{smax} to T_p		3°C / Second Max.
Liquidous temperature (T_L) Time at liquidous (t_L)		217°C 60 - 150 Seconds
Peak package body temperature (T_P)		260°C
Time (t_P) within 5°C of the specified classification temperature (T_C)		30 Seconds
Average ramp-down rate (T_P to T_{smax})		6°C / Second Max.
Time (25°C to Peak Temperature)		8 Minutes Max.

Temperature Derating Curve

Normal ambient temperature: 23+/-3°C

Operating temperature: -55 ~ 125°C, with proper correction factor applied



Package

5000 fuses on 8mm tape-and-reel on a 7 inch (178mm) reel per EIA Standard 481.

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