

Type 06H

0603 Fast Acting SMD Fuses

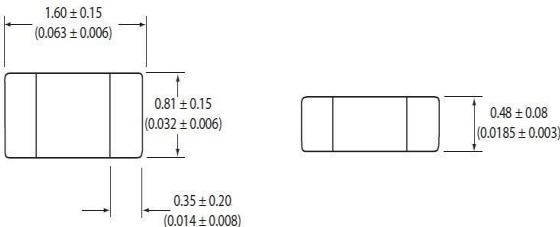


Description

06H 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.

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



Agency Approvals.

Safety Agency	Agency File Number	Ampere Range
	E485357	250mA ~ 5A

Electrical Characteristics for Series

% of Ampere Rating	Opening Time
100%	4 Hour Min
250%	5Sec. Max

Electrical Characteristic Specifications by Item

Part No.	Rated Voltage DC	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
06H0250	63V	0.250	50A	3250	893	0.0004	D
06H0375		0.375	50A	1310	587	0.0009	E
06H0500		0.500	50A	1070	582	0.001	F
06H0750		0.750	50A	470	427	0.009	G
06H1100		1	50A	300	345	0.01	H
06H1150		1.5	50A	150	270	0.04	K
06H1200		2	50A	75	160	0.115	N
06H1250		2.5	50A	47	145	0.14	O
06H1300		3	50A	35	130	0.28	P
06H1350		3.5	50A	27	130	0.5	R
06H1400		4	50A	18	120	0.6	S
06H1500		5	50A	12	110	1.9	T

* 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

**No marking on fuse

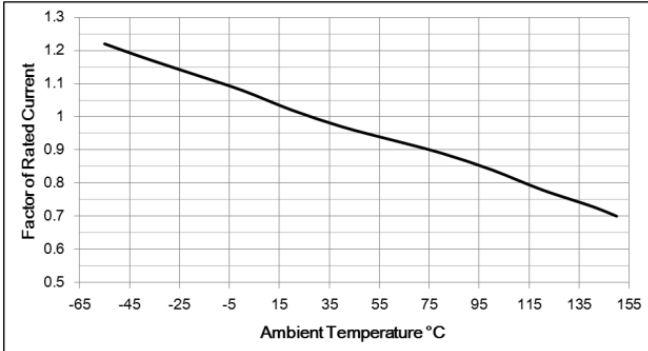
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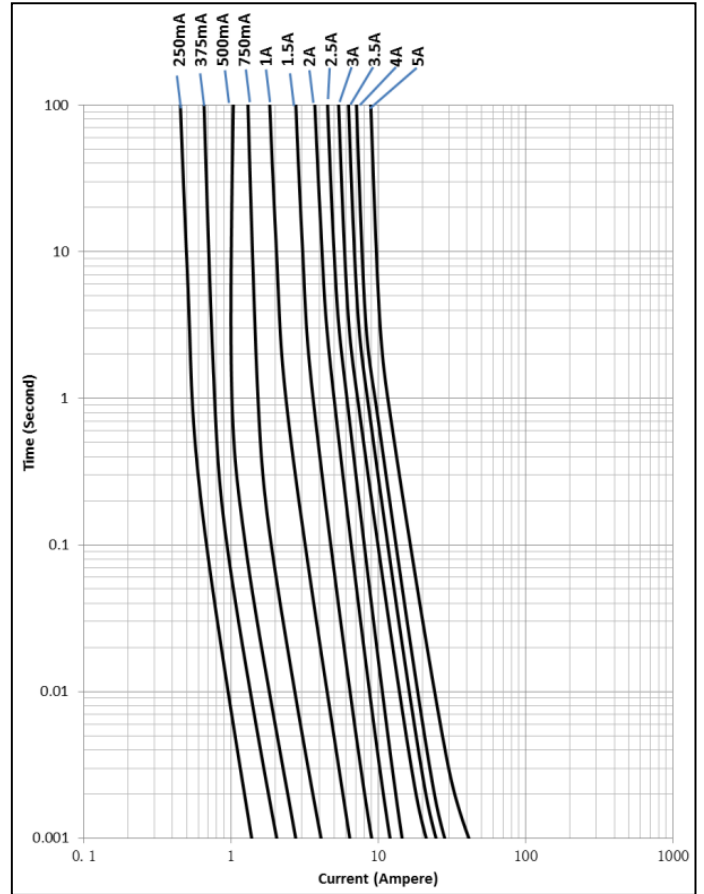


Temperature Re-rating Curve

- * Normal ambient temperature: $23 \pm 3^\circ\text{C}$
- * Operating temperature: $-55 \sim +155^\circ\text{C}$, with proper correction factor applied



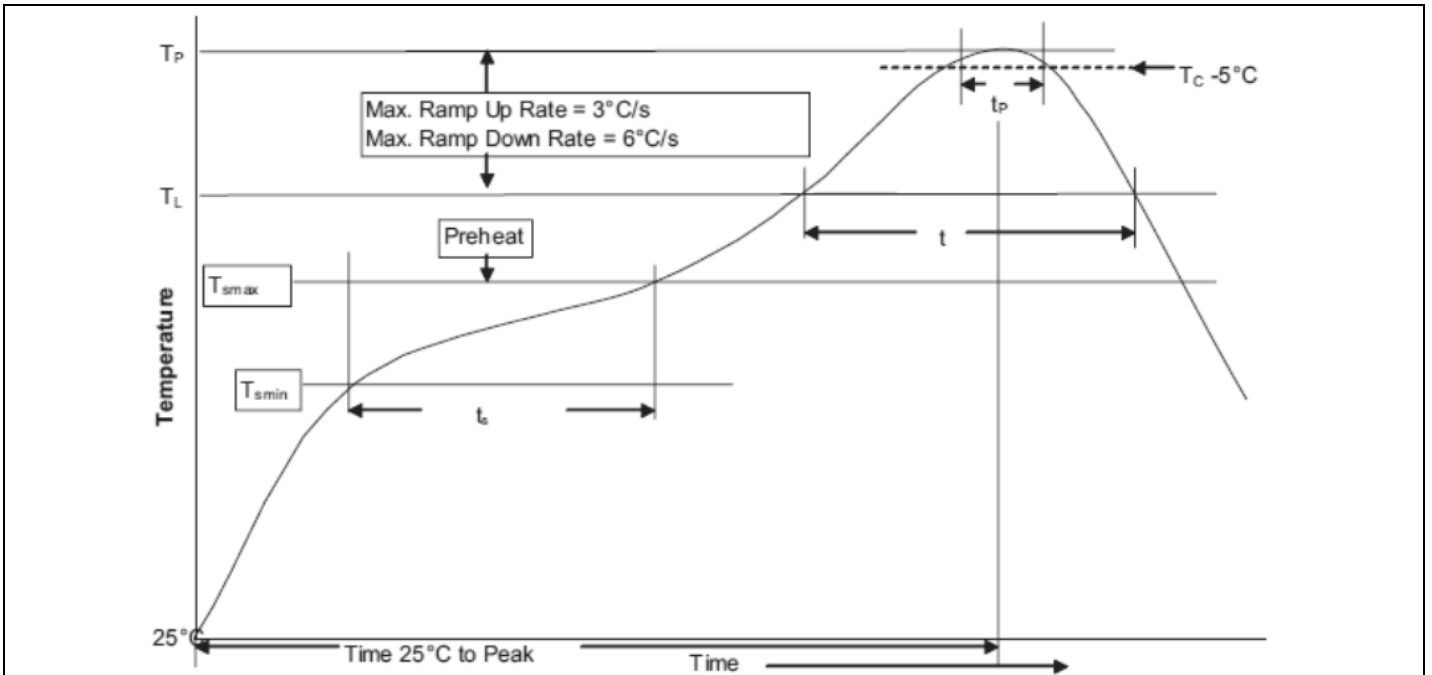
Average Time Current Curves



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



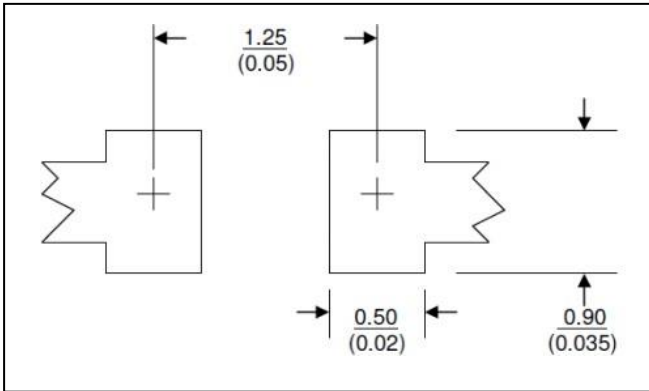
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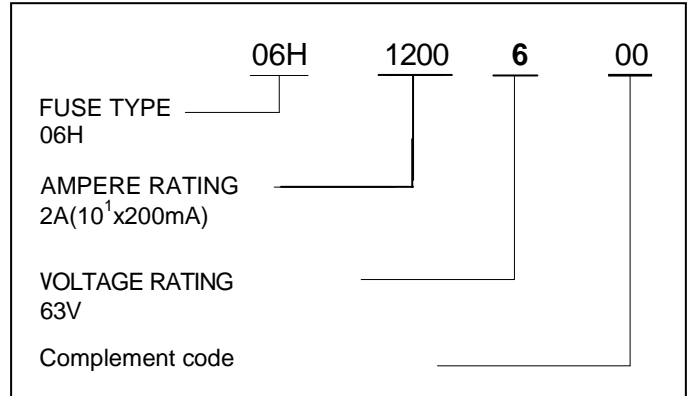


Profile Feature		Lead(Pb)free solder
Preheat and soak	Temperature min.(T _{smin})	150°C
	Temperature max.(T _{smax})	200°C
	Time(T _{smin} to T _{smax})(ts)	60 ~ 120 Seconds
Average ramp up rate T _{smax} to T _p		3°C / Second Max.
Liquidous temperature(T _L)		217°C
Time at liquidous(t _L)		60 ~ 150 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.

Mechanical Dimensions(Unit:mm/inches)



Ordering Information



Packaging

Packaging Option	Packaging Specification	Quantity
06H	tape-and-reel	5000