

## Type 06H

### 0603 Fast Acting SMD Fuses



### Description

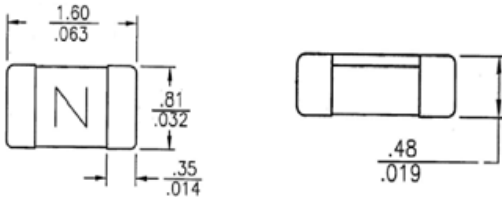
06H Series are the fuses set the industry standard for performance, reliability and quality. The solder-free design provides excellent on-off and temperature cycling characteristics during use and also makes our SMD fuses more heat and shock tolerant than typical subminiature fuses.

### 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

### Applications

- Power supplies
- Battery Chargers
- Consumer Electronics
- Industrial Controllers



### Agency Approvals.

Safety Agency	Agency File Number	Ampere Range
	E485357	250mA-8A

### Electrical Characteristics for Series

% of Ampere Rating	Opening Time
100%	4 Hour, Min
250%	60Sec.,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 <sup>2</sup> t (A <sup>2</sup> 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	B
06H1150		1.5	50A	150	270	0.04	H

\* 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-arcing I<sup>2</sup>t are measured at 10In Current

\*\*No marking on fuse

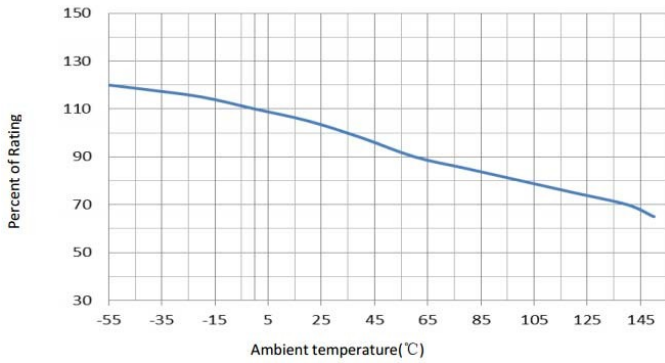
Type 06H

0603 Fast Acting SMD Fuses

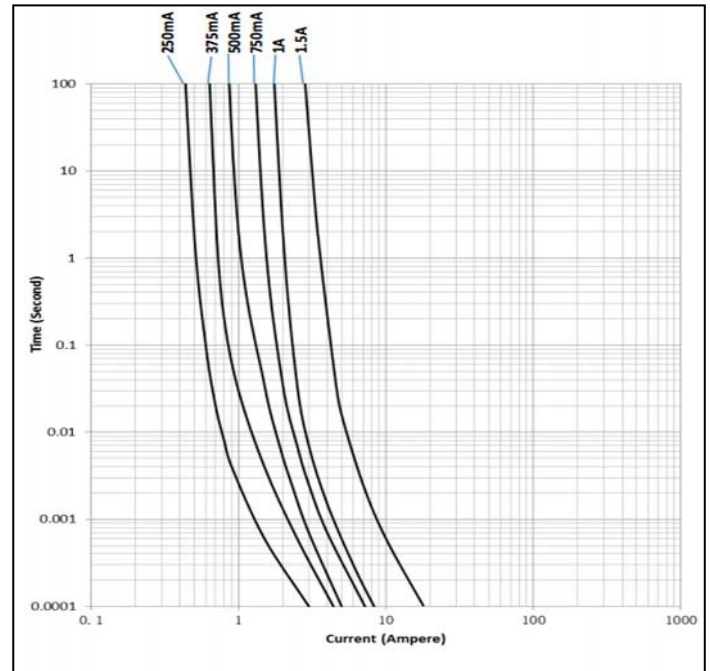


### Temperature Re-rating Curve

- \* Normal ambient temperature:  $23 \pm 3^\circ\text{C}$
- \* Operating temperature:  $-55 \sim +125^\circ\text{C}$ , with proper correction factor applied



### Average Time Current Curves



### Soldering Method

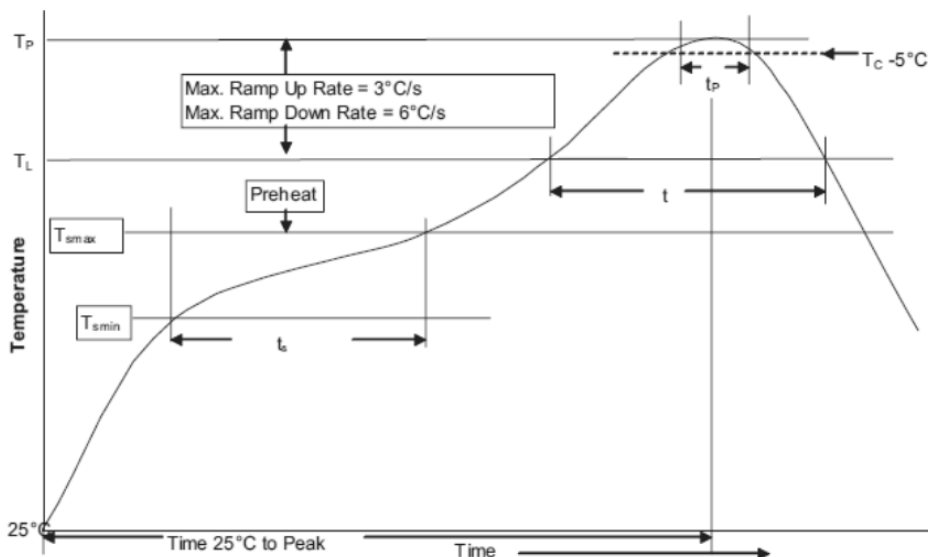
#### Wave solder

- Reservoir temperature:  $260^\circ\text{C}$
- Time in reservoir: 10 seconds maximum

#### Infrared reflow

- Temperature:  $260^\circ\text{C}$
- Time: 30 seconds maximum

### Solder Reflow Profile



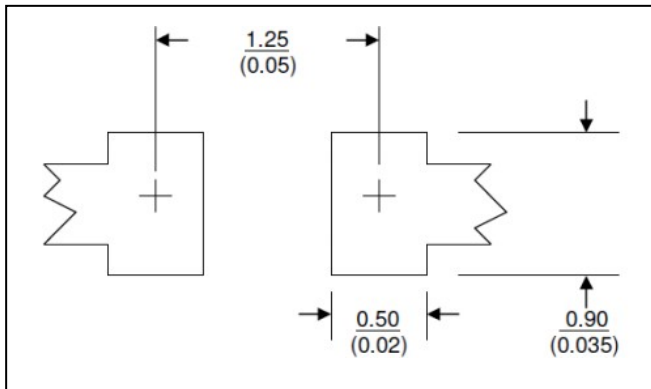
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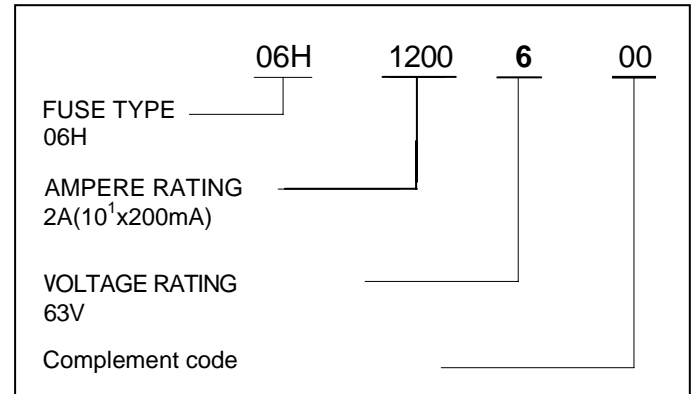


Profile Feature		Lead(Pb)free solder
Preheat and soak	Temperature min.(T <sub>smi</sub> n)	150°C
	Temperature max.(T <sub>sm</sub> a)x)	200°C
	Time(T <sub>smi</sub> n to T <sub>sm</sub> a)x)(ts)	60 - 120 Seconds
Average ramp up rate T <sub>sm</sub> a)x to T <sub>p</sub>		3°C / Second Max.
Liquidous temperature(T <sub>L</sub> )		217°C
Time at liquidous(t <sub>L</sub> )		60 – 150 Seconds
Peak package body temperature(T <sub>p</sub> )		260°C
Time(T <sub>p</sub> )within 5°C of the specified classification temperature(T <sub>c</sub> )		30 Seconds
Average ramp-down rate(T <sub>p</sub> to T <sub>sm</sub> a)x)		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