

Type 06S

0603 Slow Blow SMD Fuses



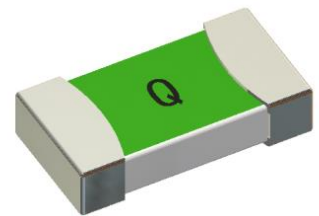
Description

06S 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	3.0In	4.0In
250mA	4 hour min.			5.0 sec max.
500mA	4 hour min.		5.0 sec max.	
750mA	4 hour min.	0.1 sec ~ 5.0 sec		

Features

- ▲Compatible with reflow and wave solder
- ▲Excellent environmental integrity
- ▲One time positive disconnect
- ▲Lead Free and Halogen free material



Specifications

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
06S0250	32V	0.25	50A	2300	850	0.0006	D
06S0500		0.50		580	460	0.003	F
06S0750		0.75		400	450	0.020	G

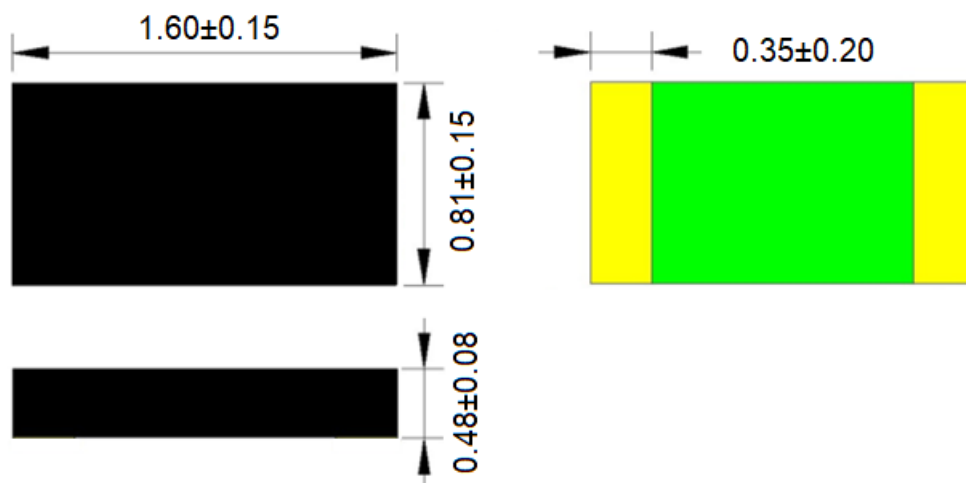
①DC Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source)

②DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25degrees

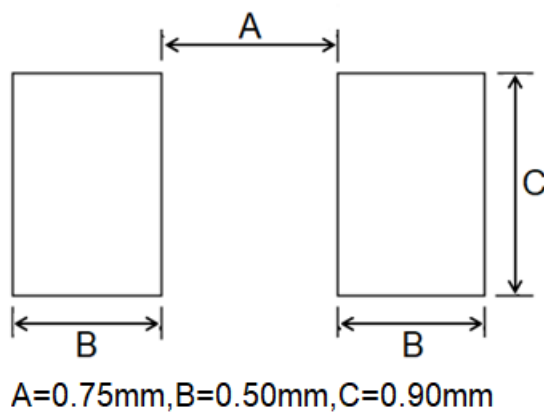
③Typical Pre-arcing I²t are measured at 10In Current

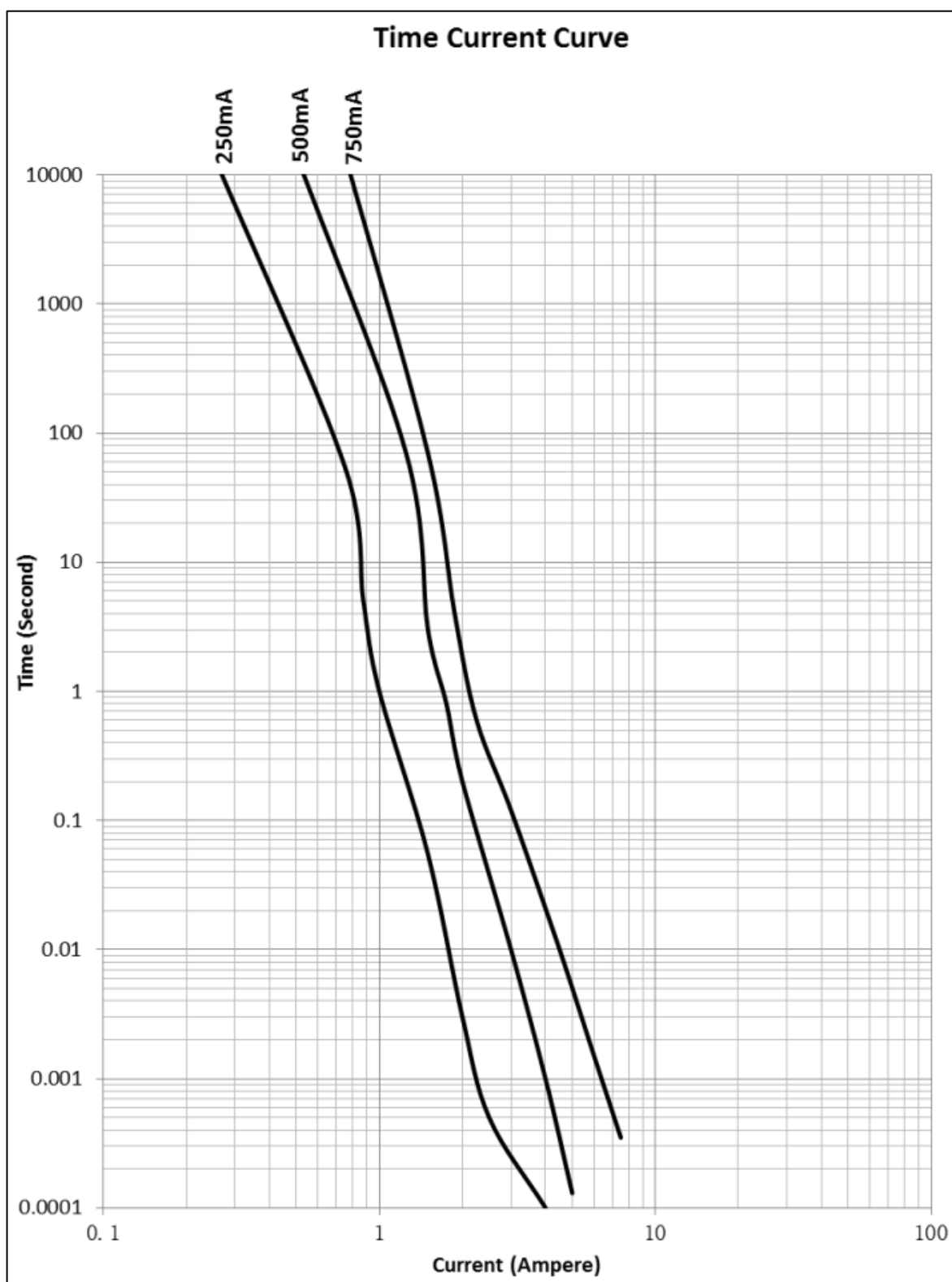
Dimension

Drawing not to scale (Unit: mm)



Recommended land pattern

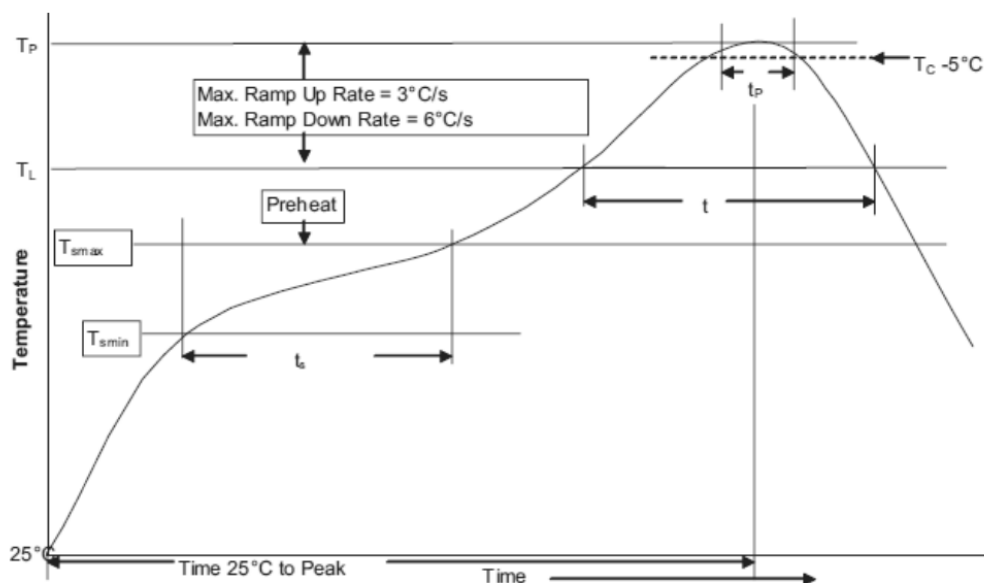




***250mA产品为系统短路保护应用设计，最小保护电流4.0倍

Soldering method

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

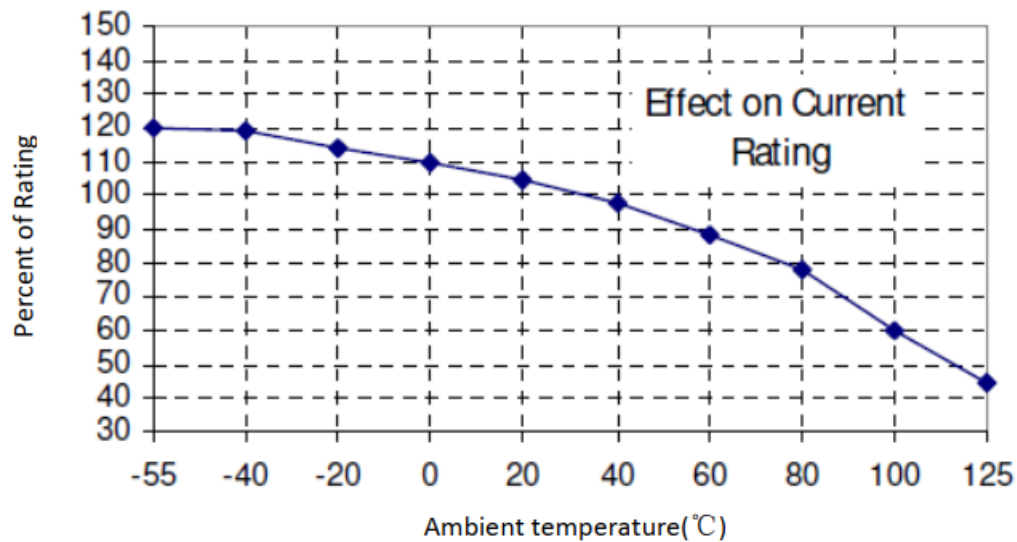
Solder reflow profile

Profile Feature		Lead(Pb) free solder
Preheat and soak	• Temperature min.(T _{smin})	150°C
	• Temperature max. (T _{smax})	200°C
	• 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)		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.

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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