



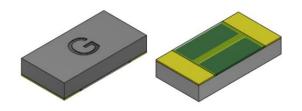
Description

06Q 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.

Rated Current	Electrical Characteristics				
250mA~2A	1.0ln	2.0ln			
	4 hour min.	5 sec max			

Features

- **▲**Compatible with reflow
- ▲Excellent environmental integrity
- **▲**One time positive disconnect



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
06Q0250	-	0.25		700	280	0.0003	D
06Q0375		0.375		430	250	0.0007	E
06Q0500		0.50		235	215	0.0020	F
06Q0750	32V	0.75	50A	160	175	0.0055	G
06Q1100		1.0		108	160	0.01	Н
06Q1150		1.5		55	125	0.03	K
06Q1200		2.0		41	115	0.06	N

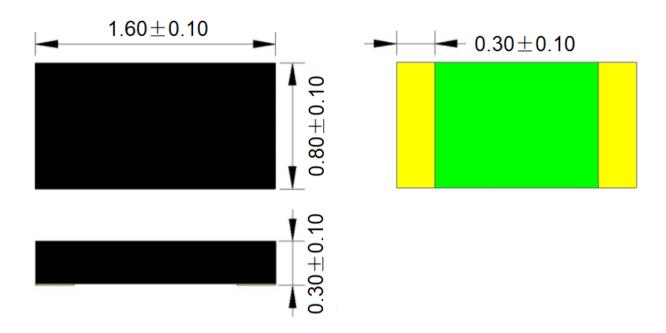
- ①DC Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source)
- 2DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25degrees
- 3 Typical Pre-arcing I2t are measured at 10 In Current



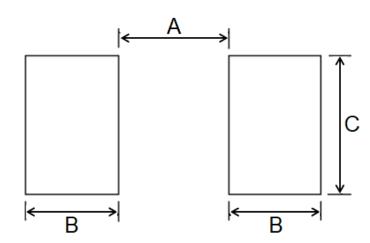


Dimension

Drawing not to scale (Unit: mm)



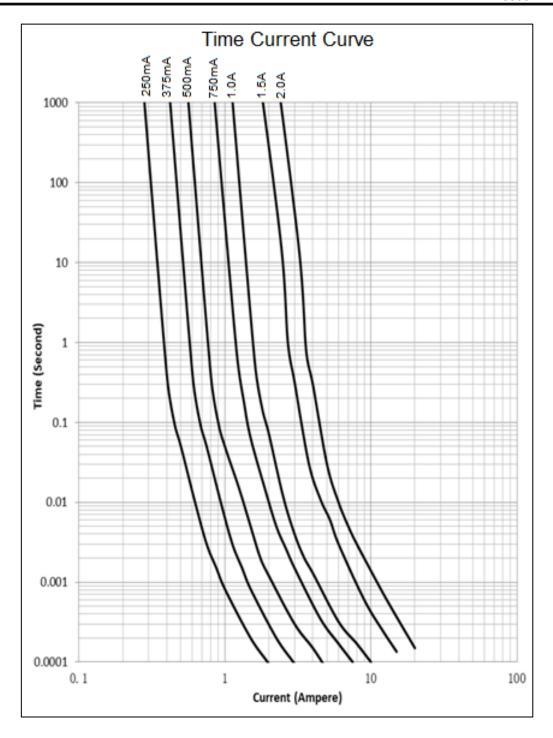
Recommended land pattern



A=1.02mm, B=0.457mm, C=1.09mm







0603 Fast Acting SMD Fuses





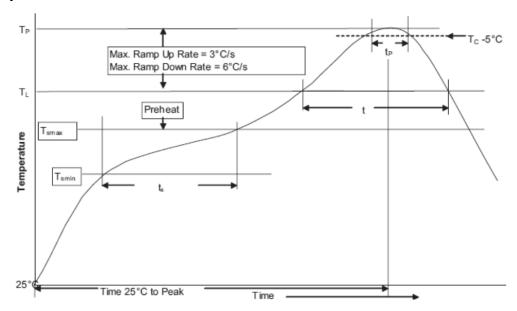
Soldering method

Infrared reflow

■ Temperature: 260°C

■ Time: 30 seconds maximum

Solder reflow profile



Droboot and cook	150 ℃	
Preheat and soak • Temperature min.(T _{smin})		
 Temperature max. (T_{smax}) 	200℃	
 Time (T_{smin} to T_{smax}) (t_S) 	60 - 120 Seconds	
Average ramp up rate T _{smax} to T _p	3℃ / Second Max.	
Liquidous temperature (T _L)	217 ℃	
Time at liquidous (t _L)	60 - 150 Seconds	
Peak package body temperature (T _P)	260 ℃	
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.	

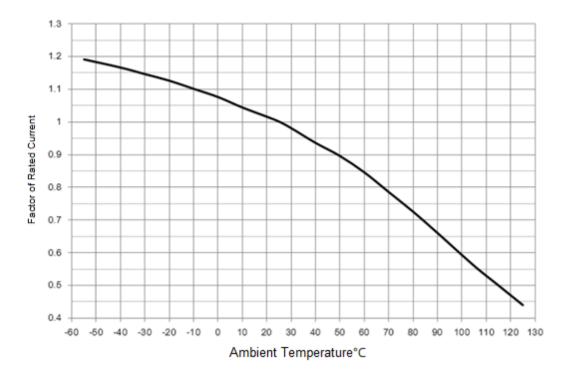




Temperature Derating Curve

Normal ambient temperature: 23+/-3℃

Operating temperature: -55 \sim 125 $^{\circ}$ C, with proper correction factor applied



Derating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

Example: For continuous operation at 70 degrees Celsius, the fuse should be derated as follows:

I = (0.75)(0.80)IRAT = (0.60)IRAT

Package

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

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