

06 100 Series







Description

06 100 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	1.0ln	2.0ln		
250mA~8A	4 hour minimum	60 sec maximum		

Features

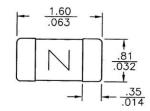
- AEC-Q200 Automotive Grade Certified
- > Compatible with reflow and wave solder
- Excellent environmental integrity
- One time positive disconnect
- > Lead Free and Halogen free material

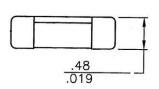
Specifications

	Specification						
Part No.	Rated Voltage DC	Rated Current (A)	Breaking Capacity (A)	Typical Cold. Resistance (mOhms) ²	Typical Voltage Drop (mV)	Typical Pre- Arcing I ² t (A ² Sec) ³	Alpha Mark
06 100.0.25		0.250	50A	3250	893	0.00042	D
06 100.0.375		0.375	50A	1310	587	0.00093	Е
06 100.0.5		0.500	50A	1070	582	0.001	F
06 100.0.75		0.750	50A	470	427	0.009	G
06 100.1		1	50A	300	345	0.011	В
06 100.1.5		1.5	50A	150	270	0.045	Н
06 100.2		2	50A	72	160	0.115	K
06 100.2.5	32V	2.5	50A	52	145	0.14	L
06 100.3		3	50A	35	130	0.21	0
06 100.3.5		3.5	50A	23.8	130	0.5	R
06 100.4		4	50A	21	120	0.56	S
06 100.5		5	50A	14	110	1.2	Т
06 100.6		6	50A	8.5	110	1.7	V
06 100.7		7	50A	7.3	80	2.3	Х
06 100.8		8	50A	5.1	75	3.0	Z

^{*} DC Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source)

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





^{*} DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25degrees

^{*} Typical Pre-arching I2t are measured at 10In Current

^{**} For 1A-5A, the color of glass coating is Green; for others, it's Blue.

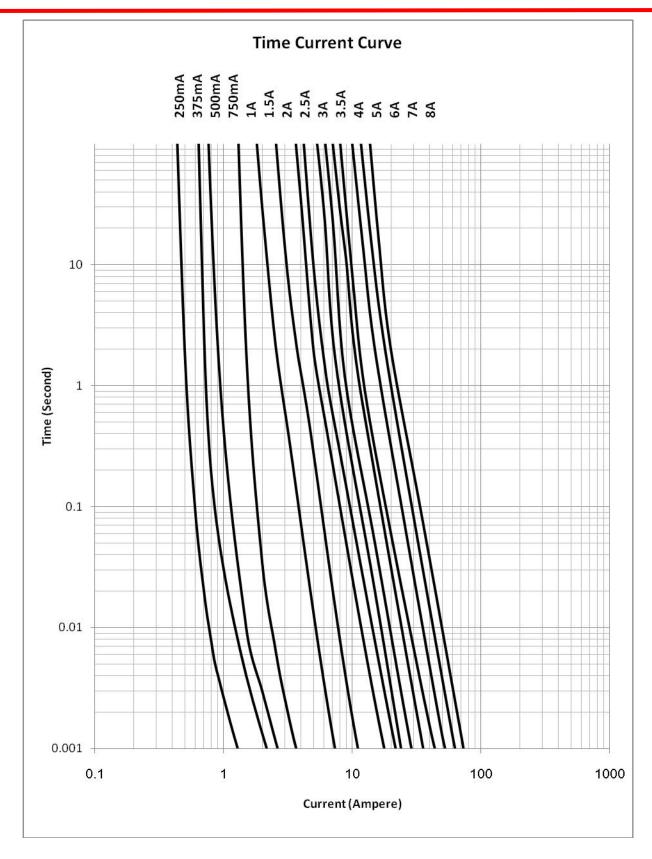


06 100 Series











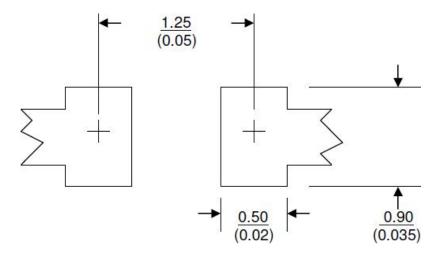
06 100 Series







Recommended land pattern



Unit: mm/inches

Soldering method

> Wave solder

■ Reservoir temperature: 260°C

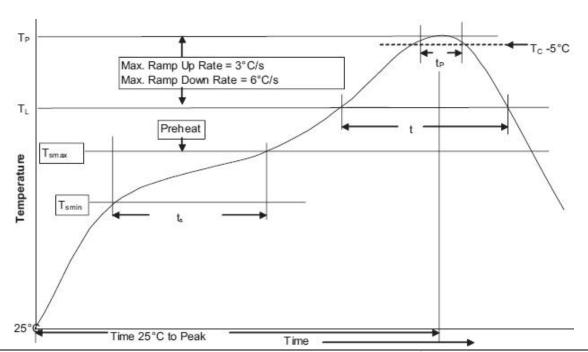
■ Time in reservoir: 10 seconds maximum

Infrared reflow

■ Temperature: 260°C

■ Time: 30 seconds maximum

Solder reflow profile



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



06 100 Series





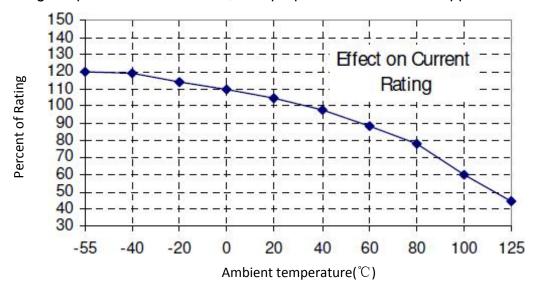


 Time (T_{smin} to T_{smax}) (t_S) 	60 - 120 Seconds
Average ramp up rate T _{smax} to T _p	3°C / Second Max.
Liquidous temperature (T _L) Time at liquidous (t _L)	217°C 60 - 150 Seconds
Peak package body temperature (T _P)	260°C
Time (t _P) within 5°C of the specified classification temperature (T _C)	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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Website: http://www.jksemi.com
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