0603 Fast Acting SMD Fuses

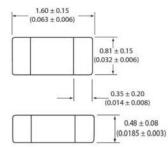












Agency Approvals.

Safety	Agency File	Ampere Range	
Agency	Number	Volt@I.R.ABILITY	
c % E485357		250mA-8A 32Vdc @50A	

Description

06F 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 Electronicsii
- Industrial Controllers

Electrical Characteristics for Series

% of Ampere Rating	Opening Time
100%	4 Hour, Min
200%	60Sec.,Max

Electrical Characteristic Specifications by Item

Part No	Rated Voltage DC	Rated Current (A)	Breaking Capacity (A)	Typical Cold. Resistance (mOhms) 2	Typical Voltage Drop (mV)	Typical Pre- Arcing I2t (A2Sec) 3	Alpha Mark
06F0250		0.250	50A	3250	893	0.00042	D
06F0375		0.375	50A	1310	587	0.00093	Е
06F0500		0.500	50A	1070	582	0.001	F
06F0750		0.750	50A	470	427	0.009	G
06F1100		1	50A	300	345	0.011	В
06F1150		1.5	50A	150	270	0.045	Н
06F1200		2	50A	72	160	0.115	K
06F1250	32V	2.5	50A	52	145	0.14	L
06F1300		3	50A	35	130	0.21	0
06F1350		3.5	50A	23.8	130	0.5	R
06F1400		4	50A	21	120	0.56	S
06F1500		5	50A	14	110	1.2	Т
06F1600		6	50A	8.5	110	1.7	V
06F1700		7	50A	7.3	80	2.3	Х
06F1800		8	50A	5.1	75	3.0	Z

^{*} 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

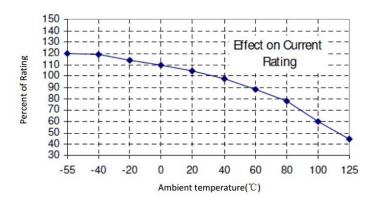
^{**} For 1A-5A, the color of glass coating is Green; for others, it's Blue.

Type 06F

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Temperature Re-rating Curve

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



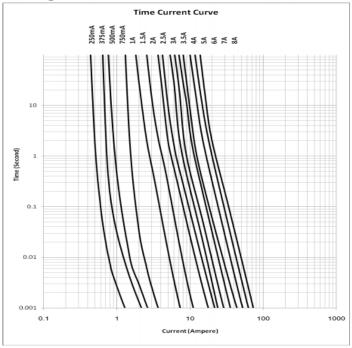
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Average Time Current Curves



Soldering Method

■ Wave solder

Reservoir temperature:260 °C

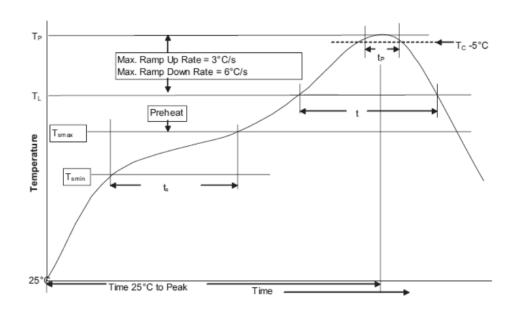
Time in reservoir:10 seconds maximum

■Infrared reflow

Temperature:260°C

Time: 30 seconds maximum

Solder Reflow Profile







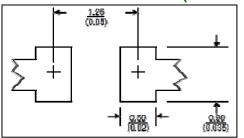




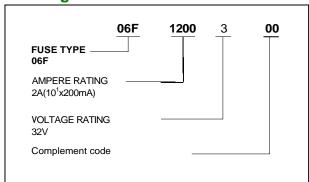


Profile Feature		Lead(Pb)free solder
	Temperature min.(T _{smin})	150 ℃
Preheat and soak	Temperature max.(T _{smax})	200℃
	Time(T_{smin} to T_{smax})(ts)	60 - 120 Seconds
Average ramp up rate T _{smax} to T _p		3℃ / Second Max.
Liquidous temperature(T _L)		217℃
Time at liquidous(t _L)		60 – 150 Seconds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

Mechanical Dimensions(Unit:mm)



Ordering Information



Packaging

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