

Type 0603FF/Fast Acting SMD Fuse

0603FF系列/快断贴片保险丝



Description

0603FF 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.

0603FF系列保险丝在性能、可靠性和质量方面符合行业标准。无焊料的设计在使用过程中提供了优异的开关和温度循环特性，也使我们的SMD保险丝比典型的超小型保险丝更耐热和耐冲击。

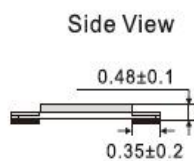
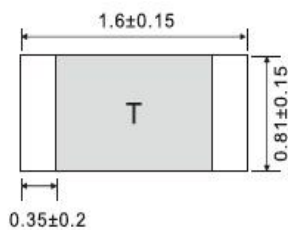
Features产品特征

- AEC-Q200 Automotive Grade Certified
AEC-Q200汽车等级认证
- Compatible with reflow and wave solder
兼容回流焊和波峰焊
- Excellent environmental integrity
优秀的环境完整性
- One time positive disconnect
一次性正断开
- Lead Free and Halogen free material
不含铅和卤素的材料

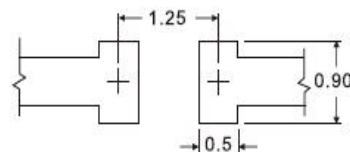
Applications产品应用

- Power supplies
电力供应
- Servers
服务器
- LED/LCD televisions
液晶电视
- Appliances and white goods
家用电器
- LCD monitor/backlight inverters
液晶显示器/背光逆变器
- Laptops and notebooks
笔记本电脑

Dimensions(Unit:mm)尺寸(单位: mm)



Recommended Pad Layout(mm)



Electrical Characteristics熔断特性

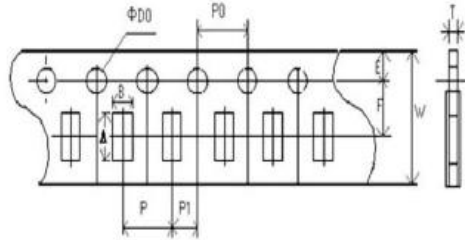
Electrical Characteristics熔断特性		
Ampere Rating	% of Amp Rating	Opening Time
250mA-8A	100%	4 Hours Minimum
	200%	60 Seconds Maximum

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Electrical Specifications 电气特性

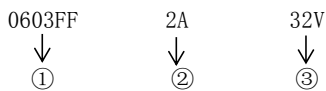
Catalog Number	Ampere Rated In	Marking	Voltage Rating(V) Interrupting Rating (A)	Norminal Resistance Cold(Ohm)	Norminal Melting $I^2T(A^2sec)$
0603FF250mA	250mA	D	50A@63V/32VDC	3250	0.00042
0603FF375mA	375mA	E		1800	0.00093
0603FF500mA	500mA	F		1070	0.001
0603FF750mA	750mA	G		470	0.009
0603FF1A	1A	B		250	0.011
0603FF1.5A	1.5A	H	50A@32VDC	150	0.045
0603FF2A	2A	K		78	0.115
0603FF2.5A	2.5A	L		49	0.140
0603FF3A	3A	O		35	0.210
0603FF3.5A	3.5A	R		28.0	0.500
0603FF4A	4A	S		18.0	0.560
0603FF5A	5A	T		14.0	1.200
0603FF6A	6A	V		11.0	1.700
0603FF7A	7A	X		9.5	2.300
0603FF8A	8A	Z		7.0	3.000

Packaging and Type Designation 包装和型号名称



Type	A±0.15	B±0.15	W±0.2	F±0.05	E±0.1	P±0.1	P0±0.1	P1±0.05	D0±0.1	T±0.1
0603	1.9	1.0	8.0	3.5	1.75	4.0	4.0	2.0	1.5	0.75

Formation of Type Designation 类型命名的形成



①Series Nmbler系列名称:0603 (尺寸) FF (快断) **Packaging** 包装

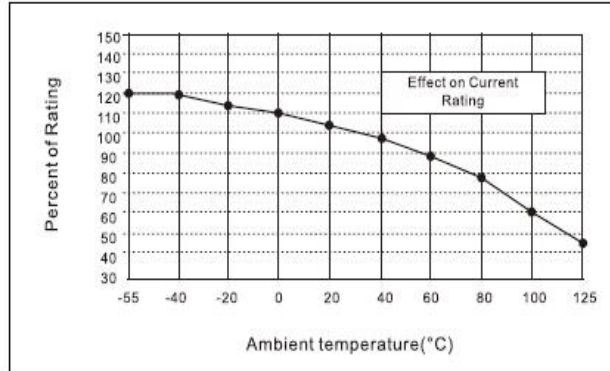
②Ampere rating额定电流:2A

③Voltage Rating额定电压:250V

On Tape:0603FF-5000pcs Per Reel,50000pcs Outer Box

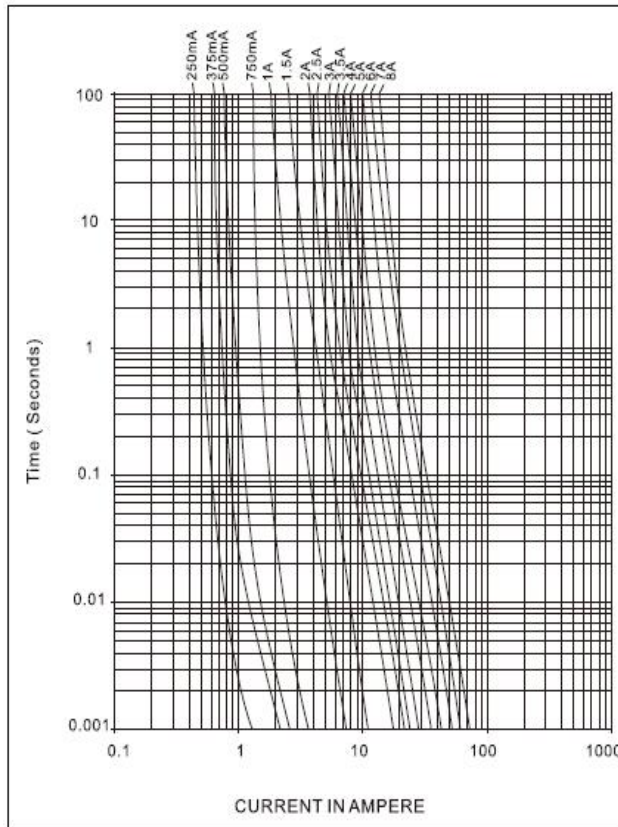
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Temperature Derating Curve 温度降额曲线



- Normal ambient temperature: 25±2°C
- Operating temperature: -55-125°C, with proper correction factor applied

Time-Current Characteristics 熔断时间特性表



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Solder reflow profile

Profile Feature		Lead(Pb) free solder
Preheat and soak	Temperature Min(T_s min)	150°C
	Temperature Max(T_s max)	200°C
	Time(T_s Min to T_s Max) (ts)	60-120secs
Average ramp up rate T_s max to T_p		3°C/second max
Liquidous temperature(T_L) Time at liquidous(tL)		217°C 60-150 seconds
Peak package body temperature(T_p)		260°C
Time(tp) within 5°C of the specified classification temperature(T_c)		30 seconds
Average ramp-down rate(T_p to T_s max)		6°C/second max
Time 25°C to peak Temperature		8 minutes max

