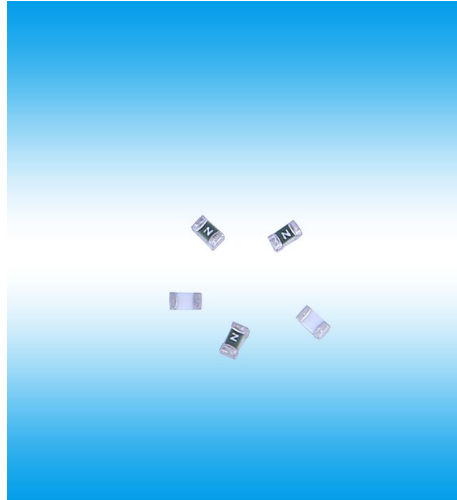


**Type 0603TD/Time Delay SMD Fuse**

0603TD系列/快断贴片保险丝



**Description**

- 0603TD 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.

0603TD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。

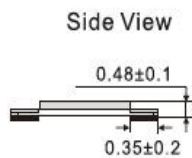
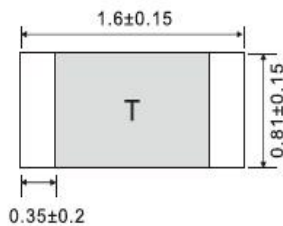
**Features产品特征**

- 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
- High inrush current withstanding capability  
抗冲击能力强

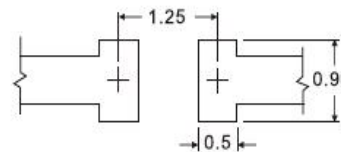
**Applications产品应用**

- 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**

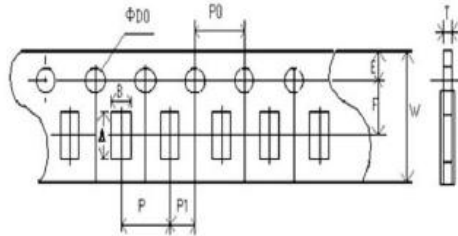
Electrical Characteristics熔断特性		
Ampere Rating	% of Amp Rating	Opening Time
1A-8A	100%	4 Hours Minimum
	200%	1-60 Seconds
	250%	5 Seconds Maximum

**Type 0603TD/Time Delay SMD Fuse**

**Electrical Specifications** 电气特性

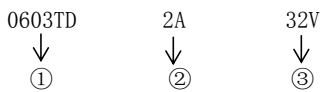
Catalog Number	Ampere Rated In	Marking	Voltage Rating(V) Interrupting Rating (A)	Normal Resistance Cold(Ohm)	Normal Melting $I^2T(A^2sec)$
0603TD1A	1A	B	50A@32VDC	250	0.011
0603TD1.5A	1.5A	H		150	0.045
0603TD2A	2A	K		78	0.115
0603TD2.5A	2.5A	L		49	0.140
0603TD3A	3A	O		35	0.28
0603TD3.5A	3.5A	R		28.0	0.50
0603TD4A	4A	S		18.0	0.60
0603TD5A	5A	T		14.0	1.90
0603TD6A	6A	V		11.0	2.30
0603TD7A	7A	X		9.5	3.00
0603TD8A	8A	Z	7.0	4.50	

**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) TD (慢断) **Packaging** 包装

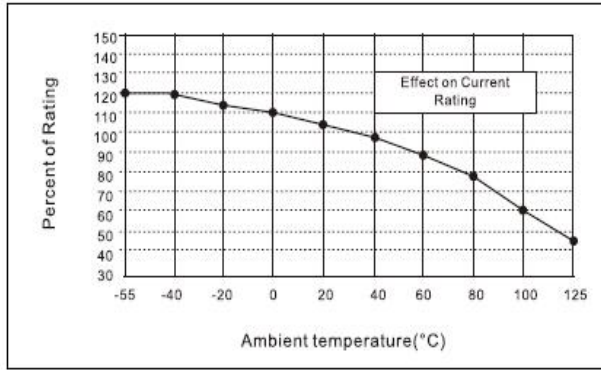
②Ampere rating额定电流:2A

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

③Voltage Rating额定电压:250V

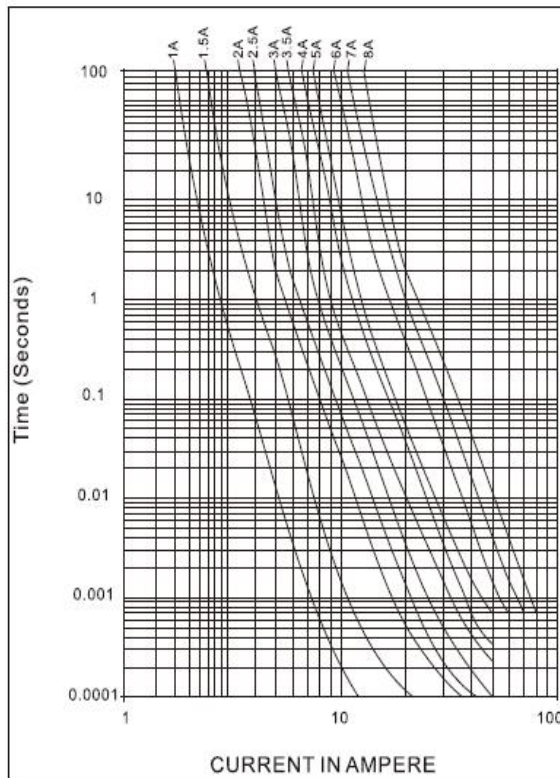
Type 0603TD/Time Delay SMD Fuse

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



**Type 0603TD/Time Delay SMD Fuse**

**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) ( $t_s$ )	60-120secs
Average ramp up rate $T_s$ max 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 $T_s$ max)		6°C/second max
Time 25°C to peak Temperature		8 minutes max

