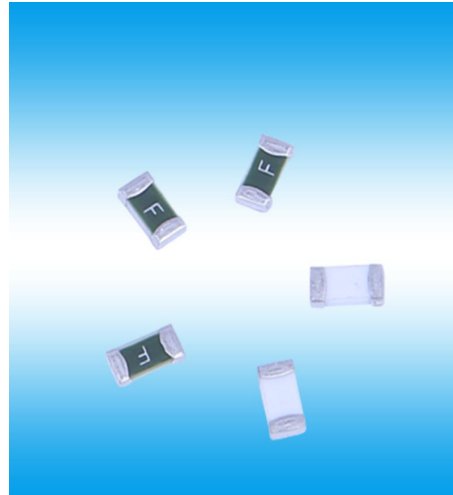


**Type 1206TD/Time Delay SMD Fuse**

1206TD系列/慢断贴片保险丝



**Description**

1206TD 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.

1206TD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。

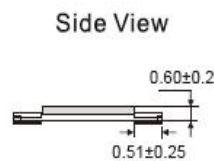
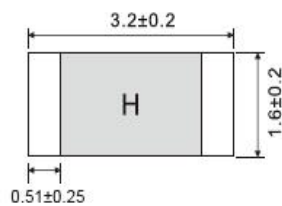
**Features 产品特点**

- ➔ 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
- ➔ Rapid interruption of excessive current  
过度电流的快速中断
- ➔ Ceramic and glass construction  
陶瓷玻璃结构
- ➔ One time positive disconnect  
一次性断开
- ➔ High inrush current withstanding capability  
抗冲击能力强

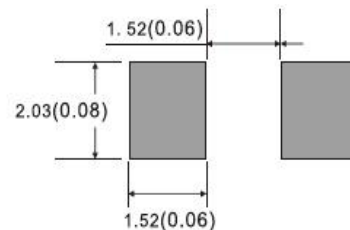
**Applications 产品应用**

- ➔ 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**

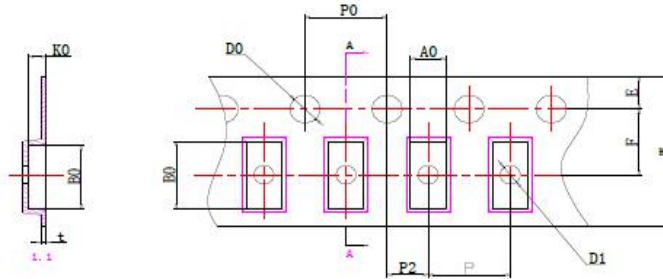
Ampere	100%	200%	250%	300%	350%	1000%
0.63A-3A	4 Hours Minimum	1-60s	5S Max	0.1-3S	-	0.2-20ms
3.5A-5A		-	5S Max	0.1-3S	-	0.2-20ms
6A-30A		-	-	-	5S Max	0.2-10ms

**Type 1206TD/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 $I^2T(A^2sec)$
1206TD630mA	630mA	B	50A@32V/72V/125VDC 300A@24VDC 50A@125VAC	1080.0	0.01
1206TD750mA	750mA	0.75		850.0	0.01
1206TD1A	1A	H		480.0	0.11
1206TD1.25A	1.25A	H		330.0	0.15
1206TD1.5A	1.5A	K		230.0	0.17
1206TD2A	2A	N		135.0	0.41
1206TD2.5A	2.5A	O		75.0	0.68
1206TD3A	3A	P		47.0	1.5
1206TD3.5A	3.5A	R	50A@32V/72VDC 300A@24VDC 50A@125VAC	38.0	2.0
1206TD4A	4A	S		34.0	2.5
1206TD4.5A	4.5A	X		29.0	2.65
1206TD5A	5A	T		24.0	4
1206TD6A	6A	F	50A@32VDC 300A@24VDC	15.0	12
1206TD7A	7A	7		12.3	14
1206TD8A	8A	M		8.3	16
1206TD10A	10A	U	300A@24VDC	6.5	22
1206TD12A	12A	12		5.0	11.5
1206TD12	12A	W		5.3	40
1206TD15A	15A	15		3.7	16.5
1206TD15	15A	Y		4.5	45
1206TD20A	20A	Q		3.4	50
1206TD25A	25A	L		1.6	60
1206TD30A	30A	Z		1.3	100

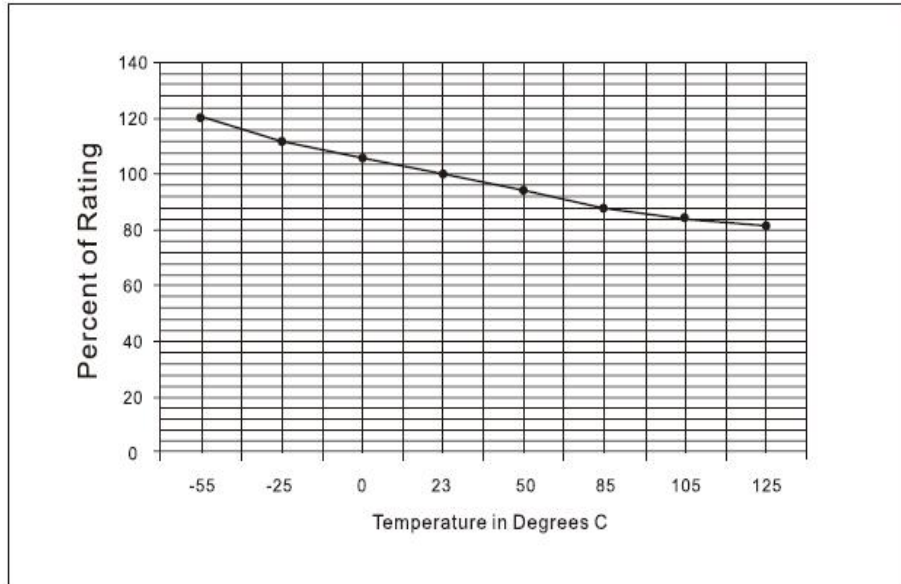
**Packaging and Type Designation** 包装和型号名称



Type	W+0.3 -0.1	A0±0.1	B0±0.1	K0±0.1	P±0.1	F±0.05	E±0.1	D0+0.1	D1min	P2±0.05	±0.02
1206	8	2.7	3.6	1.25	4.0	3.5	1.75	1.5	1.0	2.0	0.25

Type 1206TD/Time Delay SMD Fuse

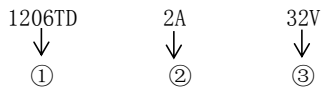
Temperature Derating Curve 温度降额曲线



Normal ambient temperature: 25±2°C

Operating temperature: -55-125°C, with proper correction factor applied

Formation of Type Designation 类型命名的形成



① Series Number 系列名称: 1206 (尺寸) TD (慢断) **Packaging 包装**

② Ampere rating 额定电流: 2A

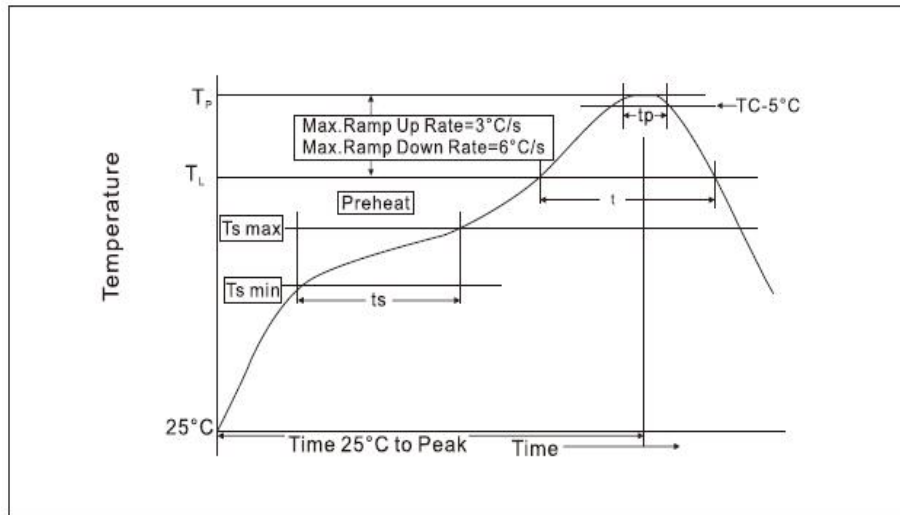
On Tape: 1206TD-3000pcs Per Reel, 30000pcs Outer Box

③ Voltage Rating 额定电压: 250V

**Type 1206TD/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) (ts)	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



Type 1206TD/Time Delay SMD Fuse

Time-Current Characteristics熔断时间特性表

