

保电通 (东莞) 电子科技有限公司
PROTECTOM (DONGGUAN) ELECTRONIC TECHNOLOGY CO.,LTD

ES1T 1206 SMD FUSES

贴片熔断保险丝规格书

Add: Room 1101, Unit 1, Block 6 No. 5, Machong Section Shui Xiang Avenue,
Ma Chong Town Dongguan City

Tel: 0769-88329950 88329951 88329952 18922531714

Fax: 0769-88329953

Web Site: www.bdt-e.com

E-mail: protectom@126.com GMMT@BDT-E.COM



描述 / Description



ES1T 1206 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.

产品特征 / Features

- Rapid interruption of excessive current
- Compatible with reflow and wave solder
- Ceramic and glass construction
- One time positive disconnect
- Lead free and Halogen free material

认证信息 / Agency information

- File Number:E529172, Guide JDYX2

产品应用 / Applications

- RSecondary circuit protection
- Laptop, notebook, netbook
- Flat panel displays
- High definition television(HDTV)
- LCD/LED backlighting Computers
- and peripherals Gaming console
- systems Handheld/portable
- equipment Mobile device charges

产品应用 / Applications

- Automotive
- Central body control module
- Heating ventilation and air conditioning
- Doors,window lift and seat control Digital
- instrument cluster
- In-vehicle infotainment and navigation
- Electric pumps,motor control and
- Powertrain control module(PCU)/Engine
- Transimission Control Unit(TCU)

技术参数 / Specifications

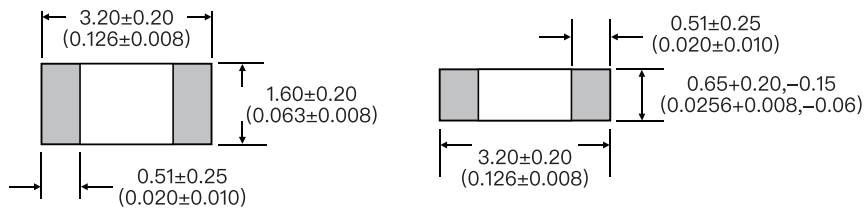
零件编号 Part Number	额定电压(V) Rated Voltage	额定电流(A) Rated Current	分断能力(A) Breaking Capacity	冷电阻 Typical Cold Resistance (mOhms)	电压降 Typical Voltage Drop (mV)	弧前 Typical Pre-Arcing I ² t (A ² Sec)	标识 Marking	Safety Approval
								
ES1T0025	63Vdc	0.25	50A@63Vdc	3700	1350	0.00038	I	●
ES1T0375		0.375		1850	720	0.00077	E	●
ES1T0050		0.5		1050	690	0.0019	B	●
ES1T0075		0.75		775	680	0.15	G	●
ES1T0100		1		485	550	0.2	H	●
ES1T0150		1.5		218	355	0.45	K	●
ES1T0200		2		133	310	1.2	N	●
ES1T0250		2.5		79	230	1.9	O	●
ES1T0300		3		49	185	2.4	P	●
ES1T0350		3.5		37	175	2.9	R	●
ES1T0400	32Vdc/24Vdc	4	100A@32Vdc	33	160	3.3	S	●
ES1T0450		4.5		28	150	4.5	X	●
ES1T0500		5		22	135	7	T	●
ES1T0600		6		15.5	140	14	F	●
ES1T0700		7		11.5	120	19	J	●
ES1T0800		8		8.0	100	20	V	●
ES1T1000		10		7.0	90	32	U	●
ES1T1200		12		5.9	85	47	W	●
ES1T1500		15		3.8	75	63	Y	●
ES1T2000		20		2.9	70	82	Q	●
ES1T2500	-	25	300A@24Vdc	1.6	60	90	25	●
ES1T3000		30		1.3	60	100	30	●

● Approved ○ pending

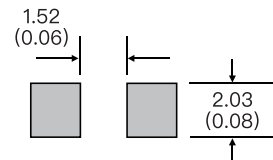
电气特性 / Electrical Characteristics

Rated Current	1.0In	2.0In	2.5In	3.0In	3.5In	10In
250mA~750mA	4.0 hour min	—	—	—	5.0 sec max	0.2ms~20ms
1~3A	4.0 hour min	1.0 sec~60.0 sec	—	0.1 sec~3.0 sec	—	0.2ms~20ms
3.5~5A	4.0 hour min	—	5.0 sec max	0.1 sec~3.0 sec	—	0.2ms~20ms
6~8A	4.0 hour min	—	—	0.1 sec~3.0 sec	5.0 sec max	0.2ms~20ms
10A~15A	4.0 hour min	—	—	—	5.0 sec max	0.2ms~20ms
20A	4.0 hour min	—	—	—	5.0 sec max	0.2ms~20ms
25~30A	4.0 hour min	—	—	0.1 sec~3.0 sec	5.0 sec max	0.2ms~20ms

尺寸 / Dimensions (Unit: mm/inch)



Pad layout



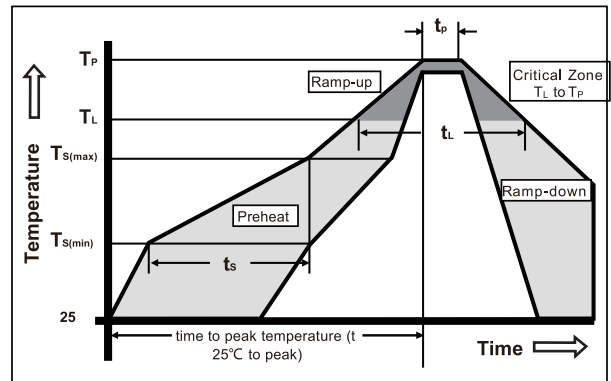
安装建议 / Installation Recommendations

1、回流焊 Solder Reflow Profile

Reflow Condition		Pb-free assembly
Pre Heat	— Temperature Min ($T_{s(min)}$)	150°C
	— Temperature Max ($T_{s(max)}$)	200°C
	— Time (Min to Max) (t_s)	60 — 120 seconds
Average Ramp-up Rate (Liquidus Temp (T_L) to peak)		3°C/second max.
TS(max) to T_L — Ramp-up Rate		5°C/second max.
Reflow	— Temperature (T_L) (Liquidus)	217°C
	— Temperature (t_L)	60 — 150 seconds
Peak Temperature (T_P)		260+0/-5°C
Time within 5°C of actual peak Temperature (t_P)		30 seconds
Ramp-down Rate Time 25°C to peak Temperature (T_P) Do not exceed		6°C/second max 8 minutes max. 260°C

Solder Pot Temperature: 260°C max

Solder Dwell Time: 10 Seconds max



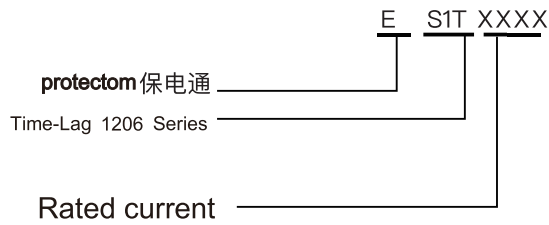
2、手工焊 Hand-Solder Parameters

Solder Iron Temperature: 280±5°C

Heating Time: 5 Seconds min

Generally, hand-soldering is not recommended

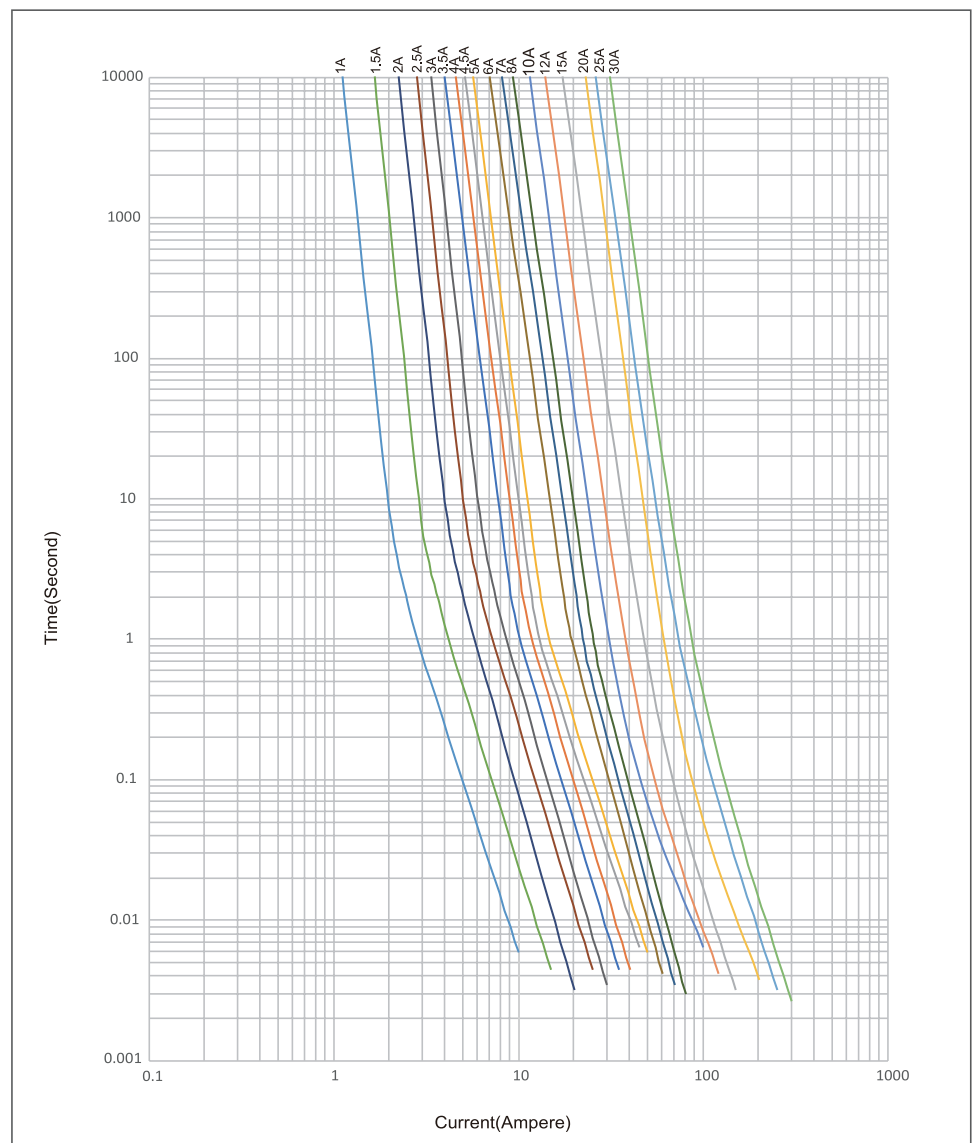
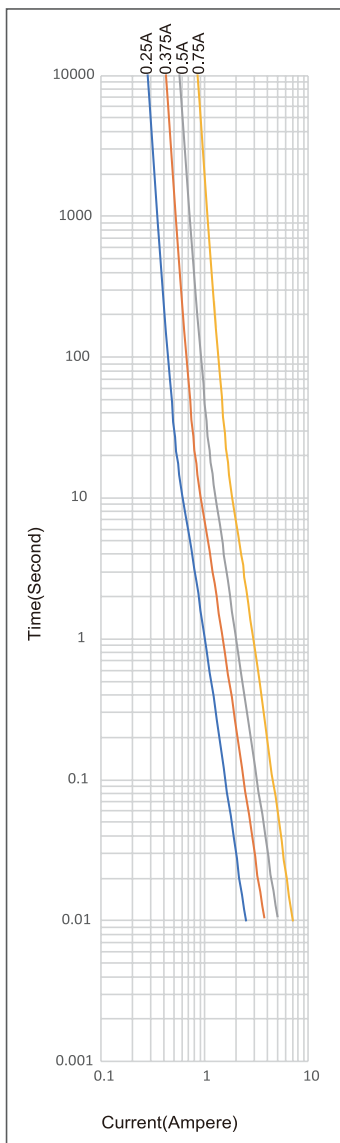
命名规则 / Part Numbering System



产品特性 / Product Characteristics

Materials	Body: Ceramic Terminations: Silver over-plated with tin Element: Alloy(Ag,Cu,Zn) Cover Coat:Glass
Operating Temperature	-55°C to 125°C Consult temperature derating curve chart.
Thermal Shock	300 cycles -55°C to 125°C
Humidity	MIL-STD-202F, Method 103B,Condition D
Vibration	Per MIL-STD-202F, Method 201A
Insulation Resistance (After Opening)	Greater than 10,000 ohms
Resistance to Soldering Heat	MIL-STD-202G,Method 210F, Condition D

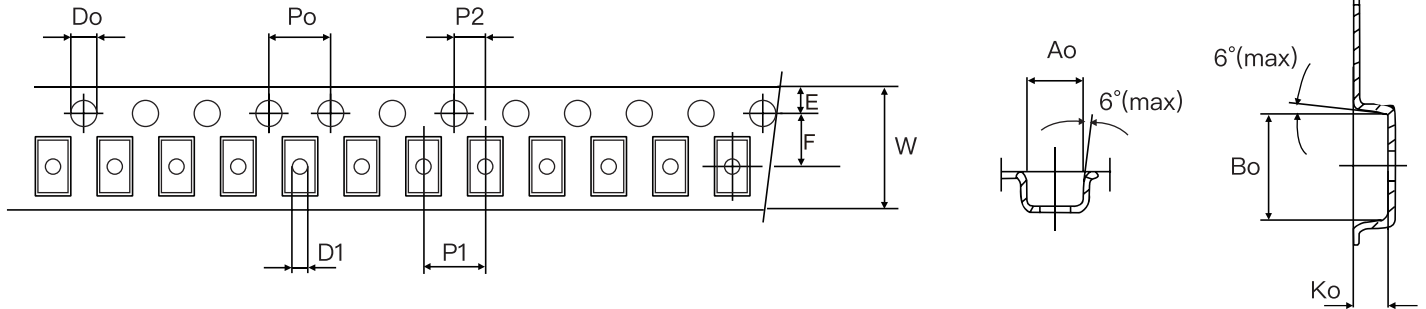
曲线图 / Time Current Curve



包装 / Packaging

3,000 pieces of fuses in plastic or paper taper

(每卷中包含3000pcs)



Symbol	Ao	Bo	Ko	Po	P1	P2
Spec	1.80±0.10	3.50±0.10	1.27±0.10	4.00±0.10	4.00±0.10	2.00±0.10
Symbol	E	F	Do	D1	W	T
Spec	1.75±0.10	3.50±0.10	1.50±0.10	1.00(Max)	8.00±0.10	0.25±0.05

(Unit: mm)

