



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

ES0T 0603 SMD FUSE

贴片熔断保险丝规格书

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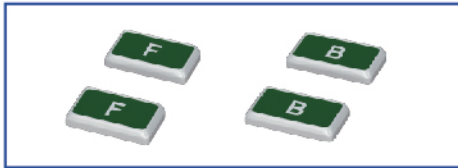
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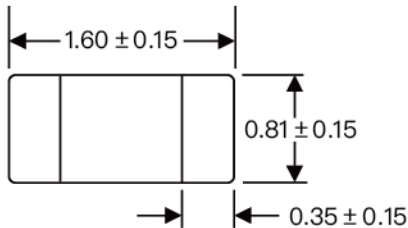
描述 / Description



- 尺寸1.6x0.81x0.65mm
- 无铅焊料设计
- 符合UL248-1标准
- 无铅无卤，RoHS认证

- 1.6x0.81x0.65mm physical size
- Solder-free design
- Designed to UL248-1
- RoHS compliant Halogen free and Lead-free

尺寸 / Dimensions (Unit:mm)



认证信息 / Agency information

- File Number: E529172, Guide JDYX2



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
ES0T0025	63	0.25	50A	3100	1435	0.0012	D	●
ES0T0037		0.375		1600	1250	0.0028	E	●
ES0T0050		0.5		1000	750	0.005	F	●
ES0T0075		0.75		440	550	0.015	G	●
ES0T0100		1		240	310	0.035	B	●
ES0T0150		1.5		125	250	0.08	H	●
ES0T0200		2		68	170	0.16	K	●
ES0T0250		2.5		52	200	0.29	L	●
ES0T0300		3		34	155	0.32	O	●
ES0T0350		3.5		22	130	0.54	R	●
ES0T0400	32	4		20	100	0.95	S	●
ES0T0500		5		13	95	1.8	T	●
ES0T0600		6		8.5	80	2.9	V	●
ES0T0700		7		6.5	80	3.5	X	●
ES0T0800		8		5.3	75	4.8	Z	●

● Approved ○ pending

- 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 25 degrees
- Typical Pre-arcing I²t are measured at 10I_n Current
- For fuse below 1A, the color of glass coating is Blue; for 1A and above,

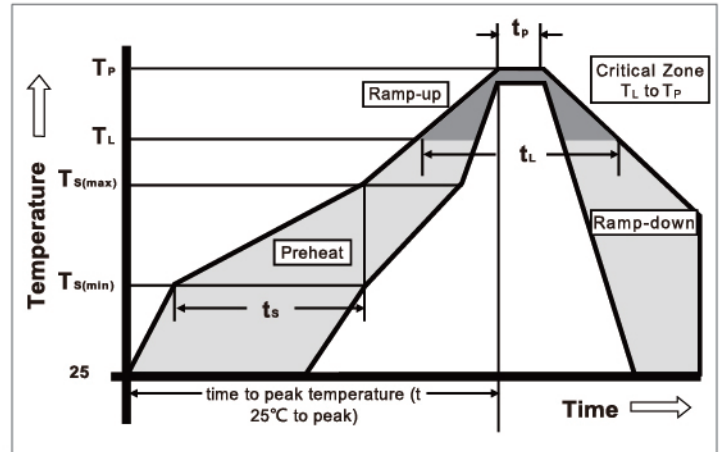
电气特性 / Electrical Characteristics

Rated Current	1.0I _n	2.0I _n	2.5I _n	3.5I _n
250mA~750mA	4.0 hour min	—	—	5.0 sec max
1~5A	4.0 hour min	1.0 sec~60.0sec	5.0 sec max	—
6~7A	4.0 hour min	1.0 sec~60.0sec	—	—
8A	4.0 hour min	—	5.0 sec max	—

安装建议 / Installation Recommendations

1、波峰焊 Wave Soldering Parameters

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		6°C/second max
Time 25°C to peak Temperature (T_P)		8 minutes max.
Do not exceed		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

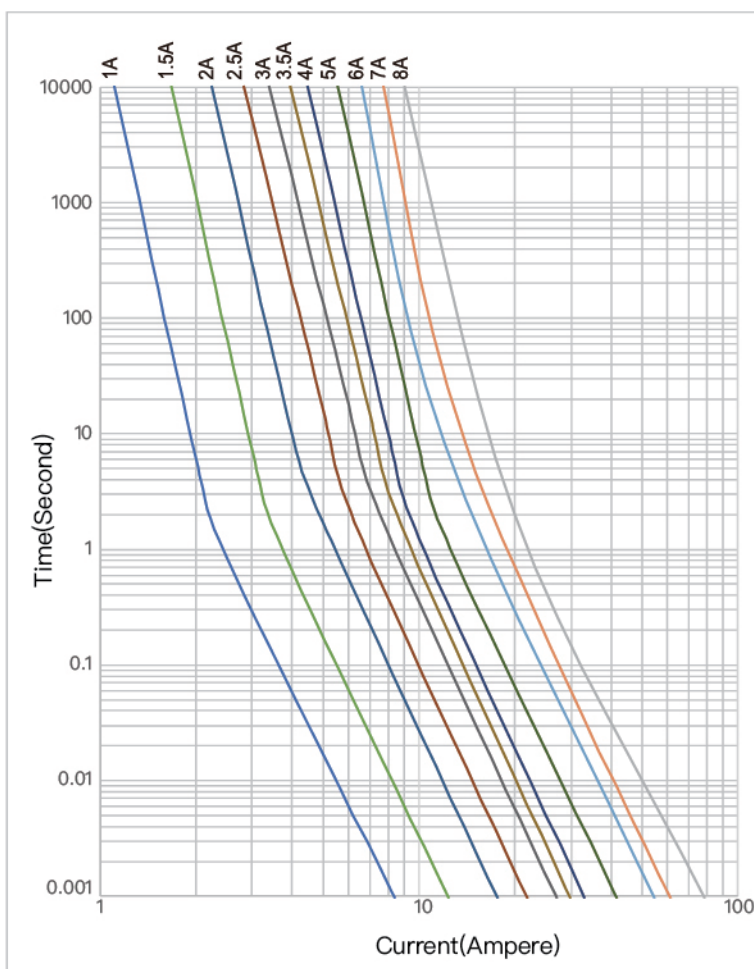
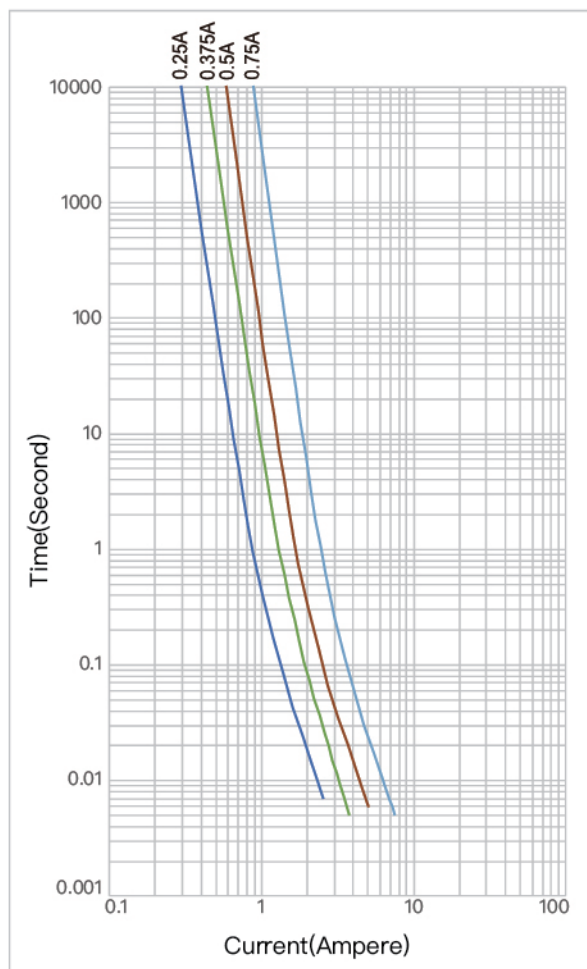


产品特性 / Product Characteristics

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

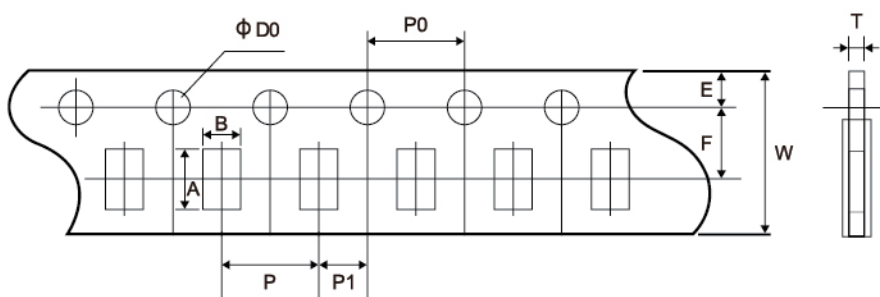
曲线图 / Time Current Curve

ES0T(SMD0603) Series 0.25~8A 63Vdc/32Vdc



包装 / Packaging

5,000 pieces of fuses in plastic or paper taper (每卷中包含5000pcs)



Type	A	B	W	F	E
Spec	1.85±0.10	1.10±0.10	8.00±0.10	3.50±0.05	1.75±0.10
Type	P	P0	P1	D0	T
Spec	4.00±0.10	4.00±0.10	2.00±0.05	1.50±0.10	0.65±0.10

(Unit: mm)