



SC1206 Time-Delay Series

Description

SC1206 Time-Delay 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.



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.

Electrical Characteristics

Rated Current	1.0ln	2.5ln	3.5ln	
250mA~5A		5 secs max.	_	
6A~30A	4 hours min.	_	5 secs max.	

Specifications

Part Number	Rated Voltage		Rated Current	Breaking Capacity (A) ①				Typical Cold. Resistance	l. Voltage	Typical Pre- Arcing I ² t	Alpha Mark								
		DC (V)		(A)	72V	63v	32V	24V	(mOhms) ②	(mV)	(A ² Sec) ③	Mark							
12 100.0.25					0.25	100	100	100	300	3700	1350	0.00038	.2 5						
12 100.0.375					0.375	100	100	100	300	1850	720	0.00077	E						
12 100.0.5					0.5	100	100	100	300	1050	690	0.0019	В						
12 100.0.75	125				0.75	100	100	100	300	775	680	0.15	G						
12 100.1								63	63		1	100	100	100	300	485	550	0.2	Н
12 100.1.5					1.5	100	100	100	300	218	355	0.45	K						
12 100.2				32	2	100	100	100	300	133	310	1.2	N						
12 100.2.5					2.5	100	100	100	300	79	230	1.9	0						
12 100.3		72		24	3	100	100	100	300	49	185	2.4	Р						
12 100.3.5					3.5	100	100	100	300	37	175	2.8	R						
12 100.4											4	100	100	100	300	33	160	3.3	S
12 100.4.5					4.5	100	100	100	300	28	150	4.5	Х						
12 100.5					5	100	100	100	300	22	135	7	Т						





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Specifications (Continue)

Part Number	Rated art Number Voltage DC (V)		Rated Current	Breaking Capacity (A) ①				Typical Cold. Resistance	Typical Voltage Drop	Typical Pre- Arcing I ² t	Alpha Mark										
			(A)	72V	63v	32V	24V	(mOhms) ②	(mV)	(A ² Sec) ③	Mark										
12 100.6					6	_	100	100	300	15.5	140	14	F								
12 100.7			63		7	_	100	100	300	11.5	120	19	J								
12 100.8				32	8	_	_	100	300	8.0	100	20	V								
12 100.10	_				10	_	_	100	300	7.0	90	32	U								
12 100.12		_		_	_						12	_	_	100	300	5.9	85	47	W		
12 100.15															24	15	_	_	100	300	3.8
12 100.20								20	_	_	100	300	2.9	70	82	Q					
12 100.25					25	_	_	100	300	1.6	60	90	25								
12 100.30					30	_	_	100	300	1.3	60	100	30								

- ◆ 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°C.
- ◆ Typical Pre-arching I²t are measured at 10In Current.

Product Characteristics

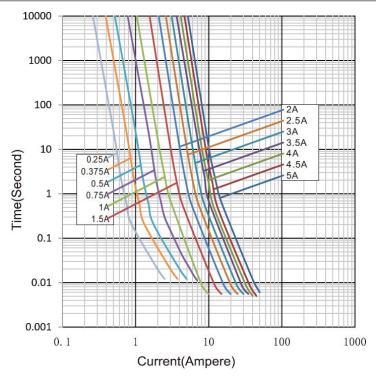
Materials	Body: Ceramic Terminatons: Silver over-plated with tin Element: Alloy(Ag,Cu,Zn) Cover Coat: Glass
Operatng Temperature	-55°C to 125°C
Thermal Shock	300 cycles -55°C to 125°C Consult temperature rerating curve chart.
Humidity	MIL-STD-202F, Method103B,Condition D
Vibraton	PerMIL-STD-202F, Method201A
Insulaton Resistance (Afer Opening)	Greaterthan10,000ohms
Resistance to Soldering Heat	MIL-STD-202G,Method210F, Condition D

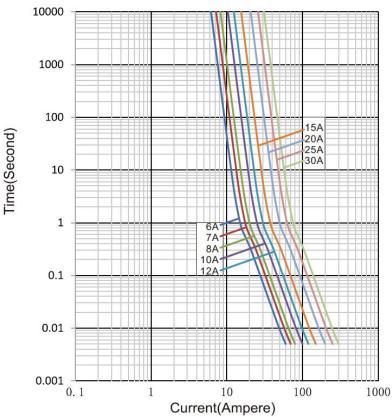




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Time Current Curve



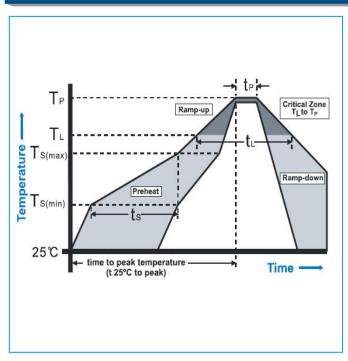






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Recommended Soldering Parameters



Reflow C	ondition	Pb-free assembly	
	-Temperature Min (T _{s(min)})	150℃	
Pre Heat	-Temperature Max (T _{s(max)})	200℃	
	- Time (min to max) (ts)	60 -120 seconds	
Average Temp (TL	Ramp-up Rate (Liquidus) to peak)	3℃ /second max.	
TS(max)	o TL - Ramp-up Rate	5℃ /second max.	
Reflow	-Temperature(TL) (Liquidus)	217℃	
Kellow	- Temperature (T _L)	60 – 150 seconds	
Peak Te	mperature (T _P)	260+0/-5℃	
Time wi Temperat	thin 5°C of actual Peak ure (T _P)	30 seconds	
Ramp-do Time 25°C Do not ex	to peak Temperature (Tp)	6°C/second max 8 minutes max. 260°C	

♦ Wave / Reflow Soldering Parameters:

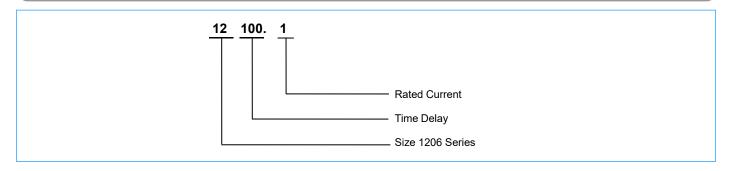
Solder Pot Temperature: 260℃ Max; Solder Dwell Time:10 seconds max;

♦ Hand-Solder Parameters:

Solder Iron Temperature: 280±5°C; Heating Time: 5 Seconds min;

Generally, hand-soldering is not recommended;

Part Numbering





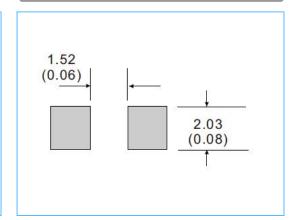


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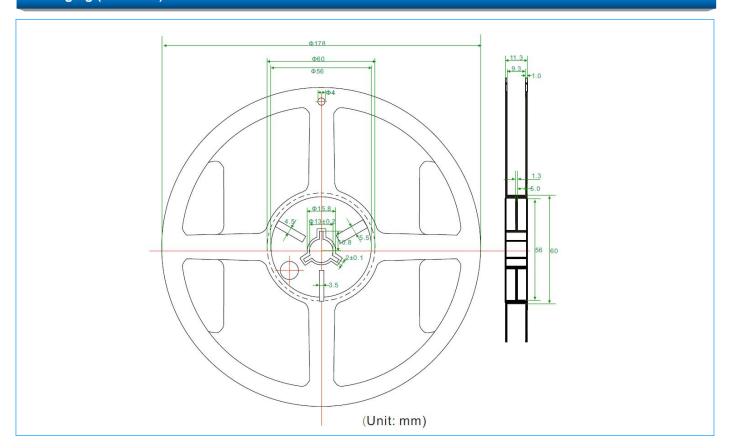
Dimensions (Unit: mm/Inch)

3.20±0.20 (0.126±0.008) 1.60±0.20 (0.063±0.008) 0.51±0.25 (0.020±0.010) 0.65+0.20,-0.15 (0.0256+0.008,-0.06) (0.126±0.008)

Pad layout (Unit: mm/Inch)



Packaging (Unit: mm)

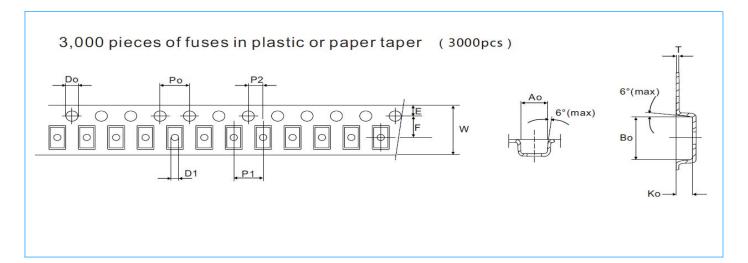






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Packaging (Unit: mm) (Continue)



Symbol	Ao	Bo	K _o	Po	P1	P2
Spec.(mm)	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	Е	F	Do	D1	W	Т
Spec.(mm)	1.75±0.10	3.50±0.10	1.50±0.10	1.00(Max)	8.00±0.10	0.25±0.05