

➤ **Description**

BSMD1206CT Series are the Time-Lag 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.

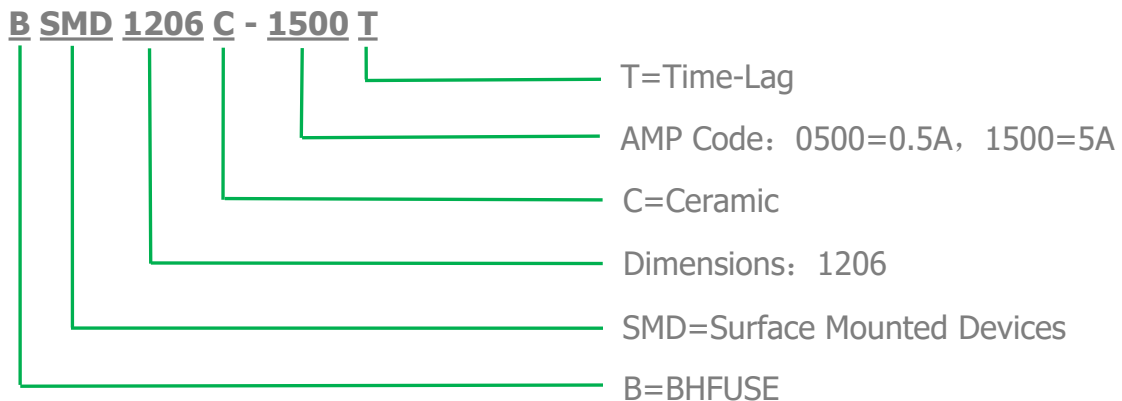
➤ **Features**

- High inrush current withstanding capability
- Compatible with reflow and wave solder
- Ceramic and glass construction
- Excellent environmental integrity
- One time positive disconnect
- Lead Free and Halogen free material

➤ **Electrical Characteristics**

Rated Current	1.0In	2.5In	3.0In	3.5In	10In
0.25A~0.75A	4 hour min	-	-	5 sec max	0.2~20 ms
1A~3A	4 hour min	1~60 sec	0.1~3 sec	-	0.2~20 ms
3.5A~5A	4 hour min	5 sec max	0.1~3 sec	-	0.2~10 ms
6A~8A	4 hour min	-	0.1~3 sec	5 sec max	0.2~10 ms
10A~15A	4 hour min	-	-	5 sec max	0.2~10 ms
20A	4 hour min	-	-	5 sec max	0.2~10 ms
25A~50A	4 hour min	-	0.1~3 sec	5 sec max	0.2~10 ms

➤ **Part Number System**



➤ Electrical Specifications

Part Number	Marking	Rated Current (A)	Rated Voltage DG	Breaking Capacity	Typical Cold. Resistance (mΩ)	Typical Voltage Drop (mV)	Typical Pre-Arcing I ² t (A ² sec)
BSMD1206C-0250T	.25	0.25	72V 63V 32V 24V	50A@72VDC 50A@63VDC 150A@32VDC 300A@24VDC	3248	1267	0.00043
BSMD1206C-0375T	E	0.375			1691	647	0.00086
BSMD1206C-0500T	B	0.50			926	583	0.0025
BSMD1206C-0750T	.75	0.75			543	553	0.0061
BSMD1206C-1100T	H	1.0			441	457	0.12
BSMD1206C-1125T	H	1.25			330	405	0.15
BSMD1206C-1150T	K	1.5			216	332	0.17
BSMD1206C-1200T	N	2.0			119	285	0.46
BSMD1206C-1250T	O	2.5			69	216	0.73
BSMD1206C-1300T	P	3.0			43	169	1.52
BSMD1206C-1350T	R	3.5			36	161	1.84
BSMD1206C-1400T	S	4.0			32	152	1.91
BSMD1206C-1450T	X	4.5			32V 24V	150A@32VDC 300A@24VDC	27
BSMD1206C-1500T	T	5.0	22	127			3.17
BSMD1206C-1600T	F	6.0	14	123			12.3
BSMD1206C-1700T	7	7.0	10	121			13.7
BSMD1206C-1800T	M	8.0	7.7	99			15.4
BSMD1206C-2100T	U	10	6.2	91			22.0
BSMD1206C-2120T	12	12	4.3	76			12.7
BSMD1206C-2150T	15	15	3.6	69			18.2
BSMD1206C-2200T	20	20	1.6	53			51.9
BSMD1206C-2250T	L	25	1.4	79			66.0
BSMD1206C-2300T	Z	30	1.1	79			109
BSMD1206C-2400T	XL	40	0.76	86			176
BSMD1206C-2500T	50	50	0.68	93			256

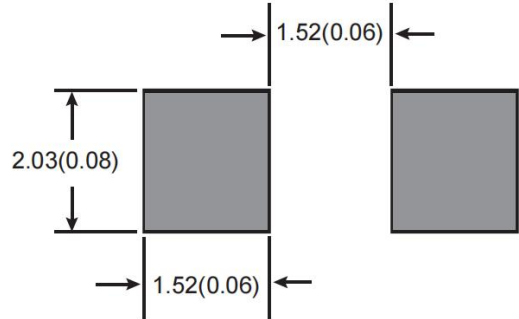
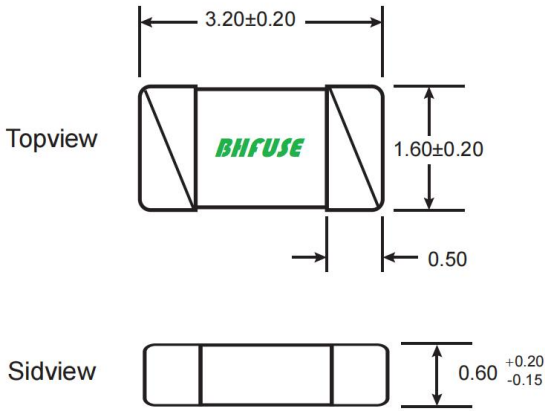
Notes:

- 1、Typical Pre-arcing I²t are measured at 10In Current;
- 2、DC interrupting rating (measured at rated voltage, time constant of less than 50 microseconds, battery source) ;
- 3、DC Cold resistance are measured at <10% of rated current in ambient temperature of 25°C.

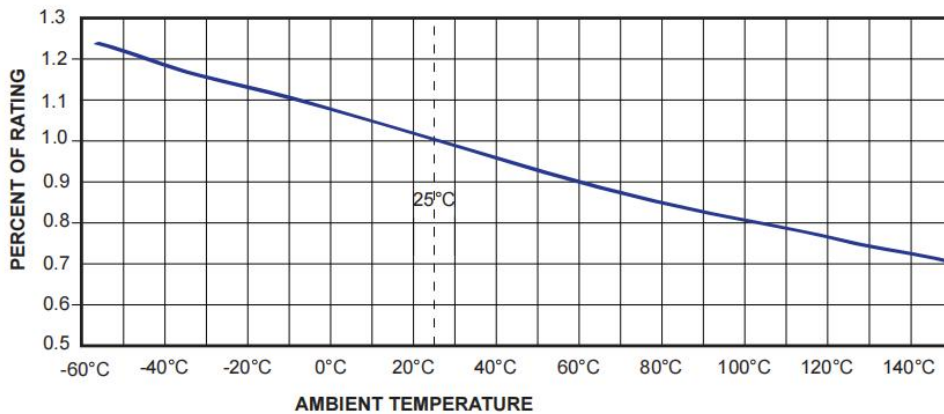
➤ **Dimensions**

Drawing not to scale (Unit:mm/inch)

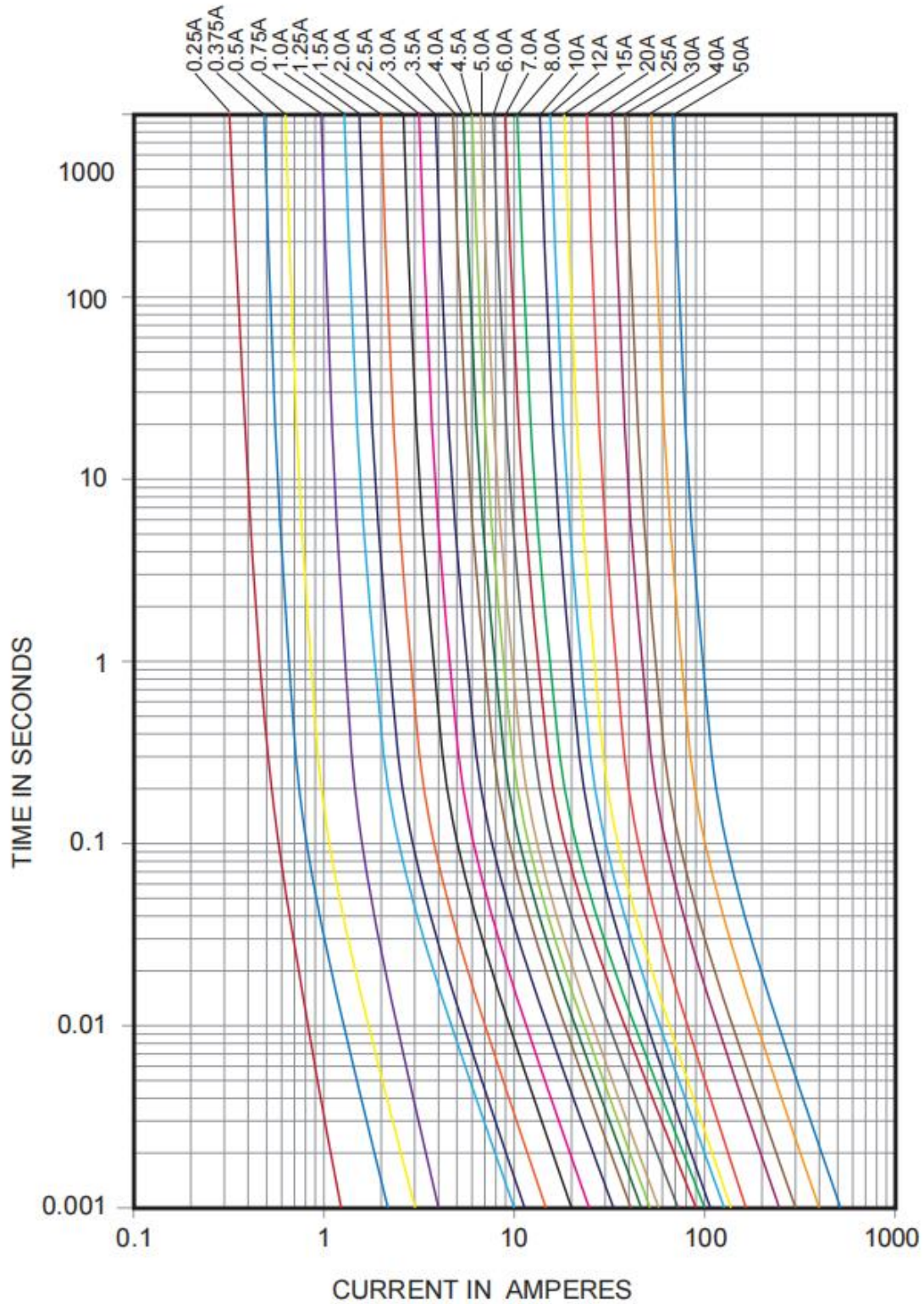
Recommended land pattern (Unit: mm/inch)



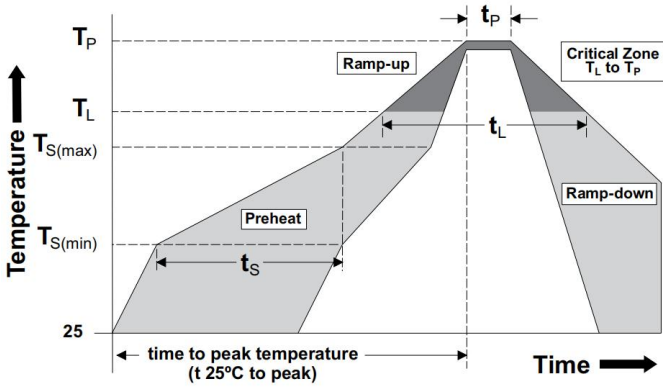
➤ **Temperature Derating Curve**



➤ **Average Time-Current Curves**



➤ **Soldering Parameters**



Soldering Method		Parameter
Wave Solder	Reservoir Temperature	260°C
	Time in Reservoir	10 sec max.
Infrared Reflow	Temperature	260°C
	Time	5 sec max.

Profile Feature		Pb-Free Assembly
Average Ramp-Up Rate (Ts(max) to Tp)		3°C/sec max.
Preheat	-Temperature Min(Ts(min))	150°C
	-Temperature Max(Ts(max))	200°C
	-Time(Ts(min) to Ts(max))	60~120 sec
Reflow	-Temperature(Tl)	217°C
	-Time(tl)	60~150 sec
Peak Temperature (Tp)		260°C
Ramp-Down Rate		6°C/sec max.
Time 25°C to Peak Temperature		8 min max.

Notes:

- 1、 Normal ambient temperature: 23+/-3°C ;
- 2、 Operating temperature: -55 ~ 150°C, with proper correction factor applied.

➤ **Packing**

Part Number	Quantity & Packaging Code
BSMD1206CT Series	3000 pcs/reel 8mm tape-and-reel on a 7 inch (178mm) reel per EIA Standard 481

➤ **Contact information**

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