

➤ 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

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

➤ Agency Approvals

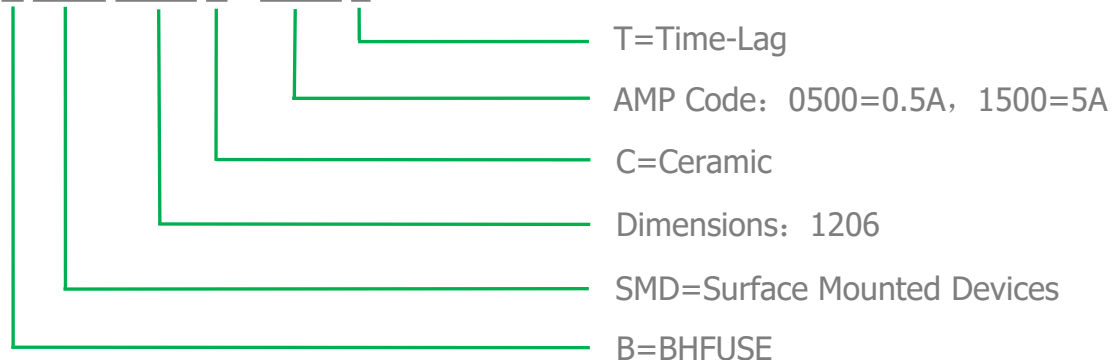
AGENCY	AGENCY FILE NUMBER
UL	E544319

➤ 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

B SMD 1206 C - 1500 T



➤ 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	144	2.89
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		200A@32VDC	0.76	86	176
BSMD1206C-2500T	50	50		200A@24VDC	0.68	93	256

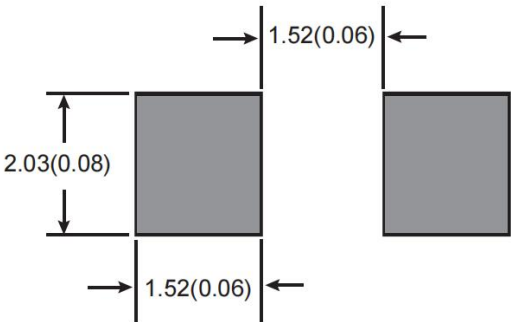
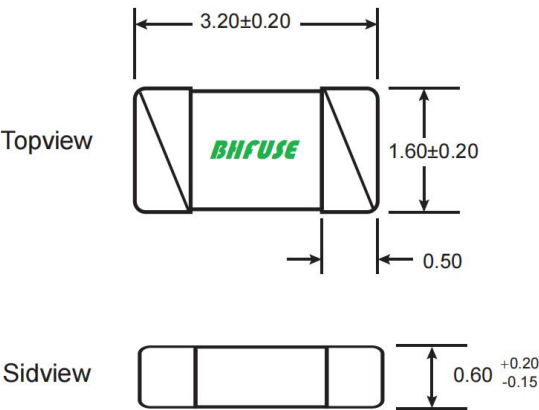
Notes:

- 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.

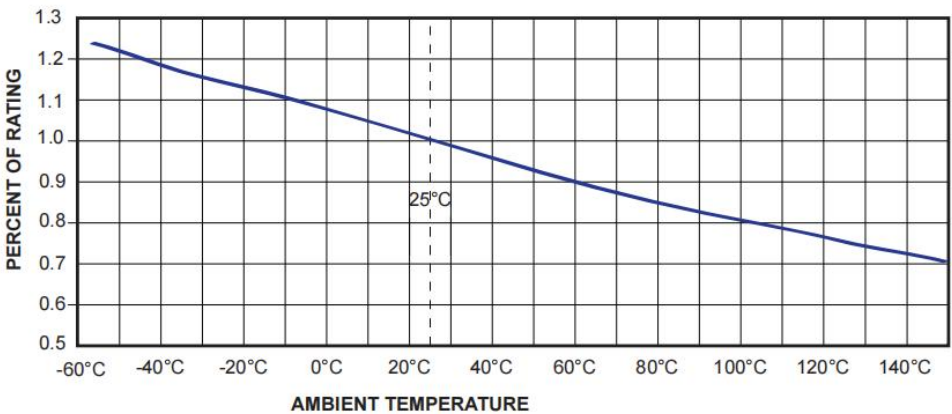
➤ **Dimensions**

Drawing not to scale (Unit:mm/inch)

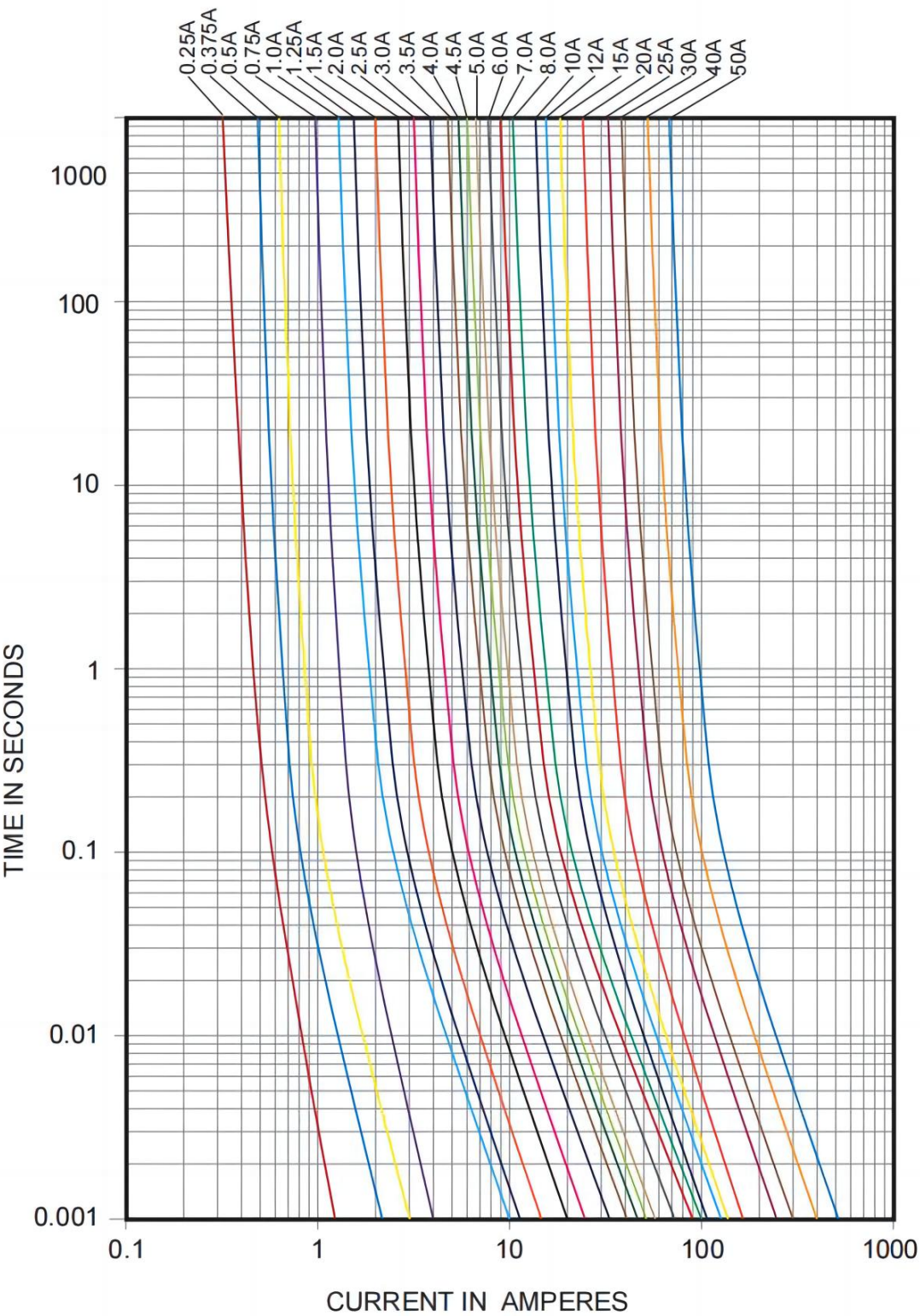
Recommended land pattern (Unit: mm/inch)



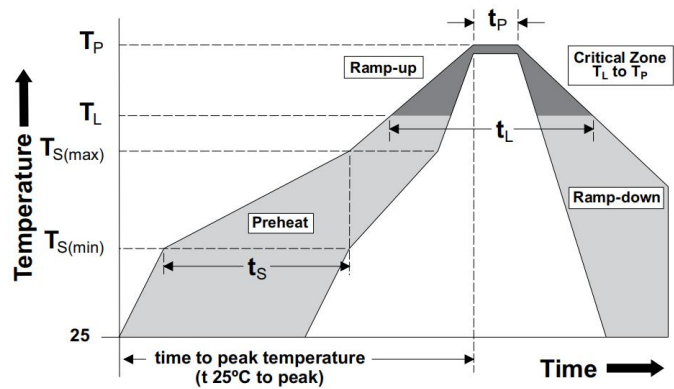
➤ **Temperature Derating Curve**



➤ **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 ($T_{s(max)}$ to T_p)		3°C/sec max.
Preheat	-Temperature Min($T_{s(min)}$)	150°C
	-Temperature Max($T_{s(max)}$)	200°C
	-Time($T_{s(min)}$ to $T_{s(max)}$)	60~120 sec
Reflow	-Temperature(T_L)	217°C
	-Time(t_L)	60~150 sec
Peak Temperature (T_p)		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