

➤ Description

BSMD0603CT 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

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

➤ Agency Approvals

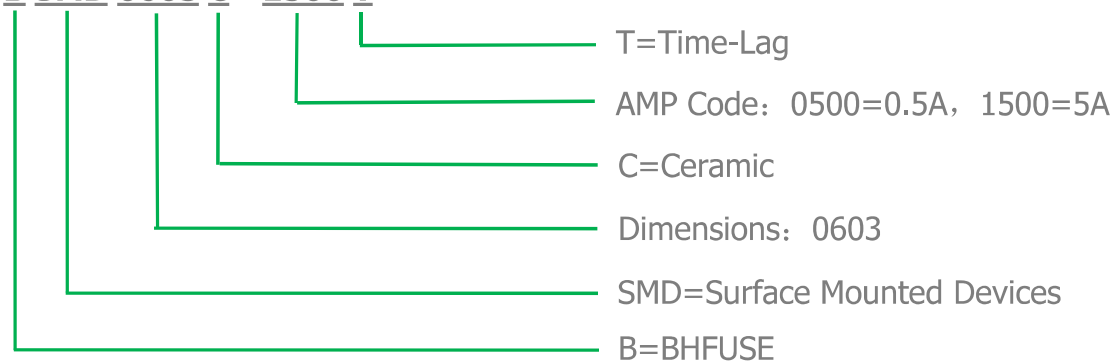
AGENCY	AGENCY FILE NUMBER
UL	E544319

➤ Electrical Characteristics

Rated Current	1.0In	2.0In	2.5In
0.25A-8A	4 hour min	1-60 sec	60 sec max

➤ Part Number System

B SMD 0603 C - 1500 T



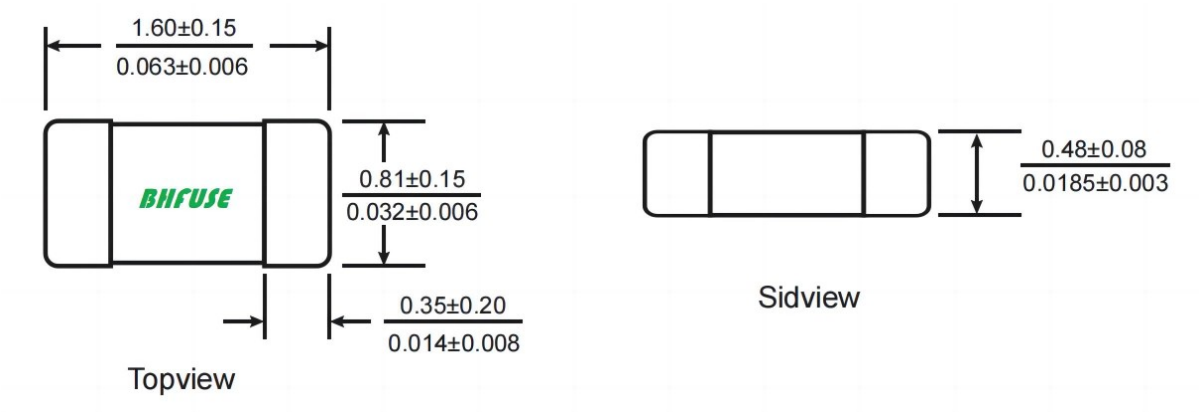
➤ Electrical Specifications

Part Number	Marking	Rated Current (A)	Rated Voltage DG	Breaking Capacity	Typical Cold. Resistance (mΩ)	Typical Voltage Drop (mV)	Typical Pre-Arcing I²t (A²sec)
BSMD0603C-0250T	D	0.250	63V 32V	50A	3028	801	0.00046
BSMD0603C-0375T	E	0.375			1730	526	0.00103
BSMD0603C-0500T	F	0.500			968	521	0.0012
BSMD0603C-0750T	G	0.750			431	387	0.0010
BSMD0603C-1100T	B	1			233	302	0.0122
BSMD0603C-1150T	H	1.5			138	243	0.0490
BSMD0603C-1200T	K	2			71	141	0.1260
BSMD0603C-1250T	L	2.5			43	132	0.1510
BSMD0603C-1300T	O	3			32	113	0.2310
BSMD0603C-1350T	R	3.5	32V		25	113	0.56
BSMD0603C-1400T	S	4			16	108	0.63
BSMD0603C-1500T	T	5			13	106	1.36
BSMD0603C-1600T	V	6			9.7	106	1.87
BSMD0603C-1700T	X	7			9.1	71	2.55
BSMD0603C-1800T	Z	8			6.3	66	3.43

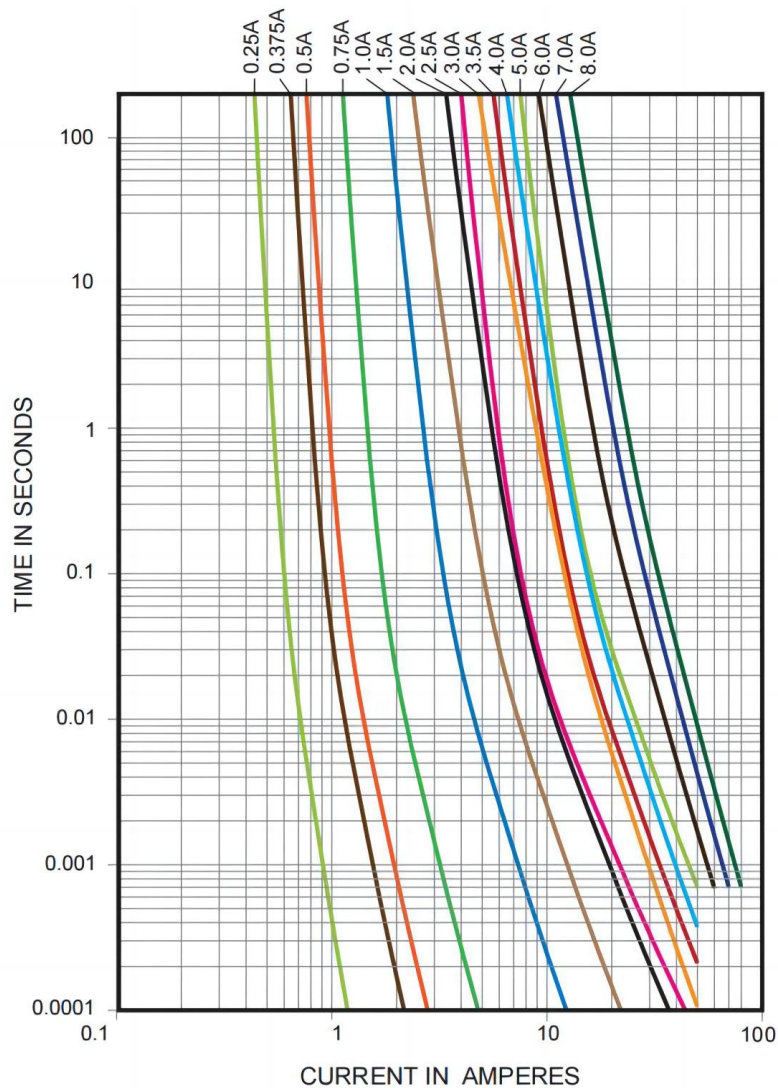
Notes:

- 1、DC interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source) ;
- 2、DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25°C ;
- 3、Typical Pre-arching I²t are measured at 10In Current ;
- 4、For 1A-5A, the color of glass coating is Green; for others, it's Blue.

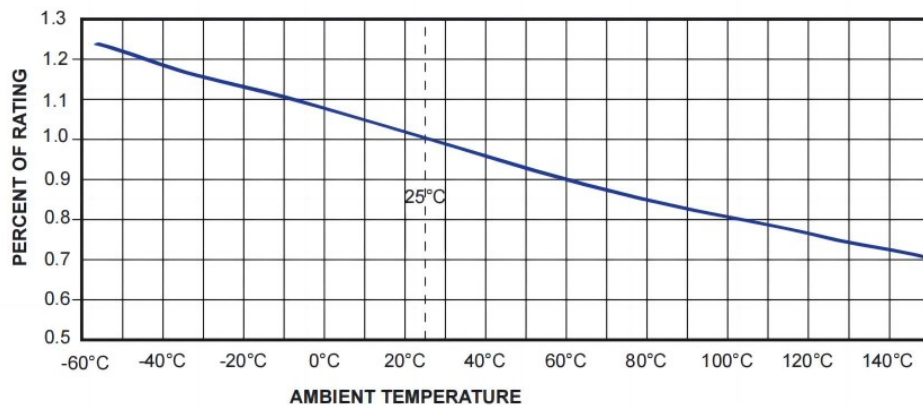
➤ Dimensions



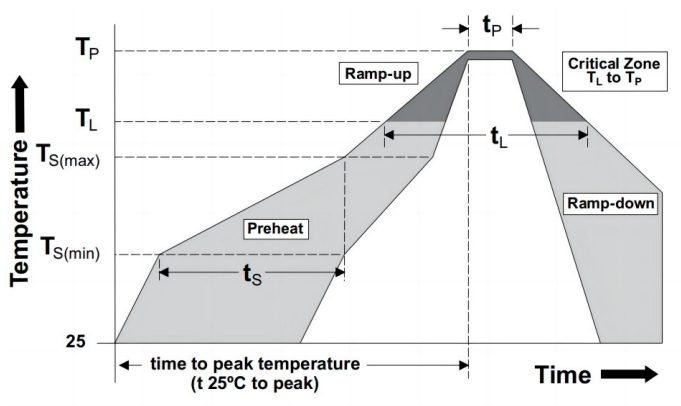
➤ Average Time-Current Curves



➤ Temperature Derating Curve



Soldering Parameters



Soldering Method		Parameter
Wave Solder	Reservoir Temperature	260°C
	Time in Reservoir	10 sec max
Infrared Reflow	Temperature	260°C
	Time	30 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
BSMD0603CT Series	5000 pcs/reel 8mm tape-and-reel on a 7 inch (178mm) reel per EIA Standard 481