

➤ 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

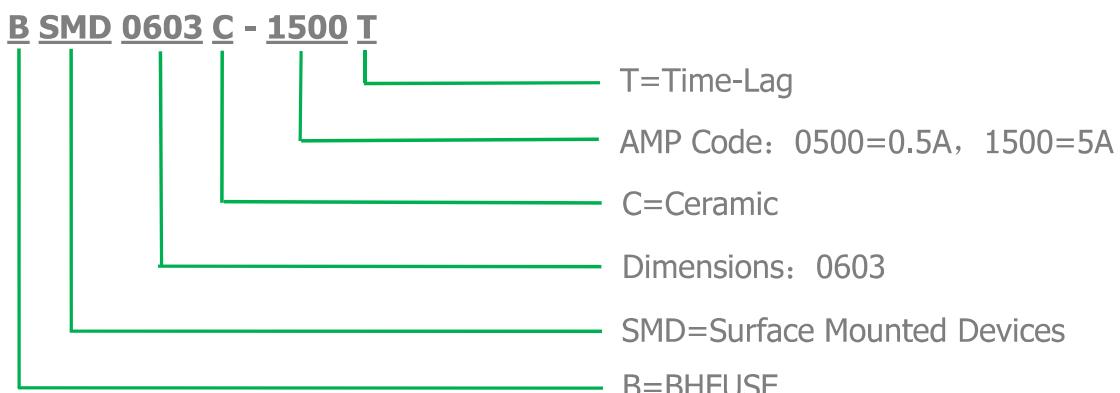
➤ Agency Approvals

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



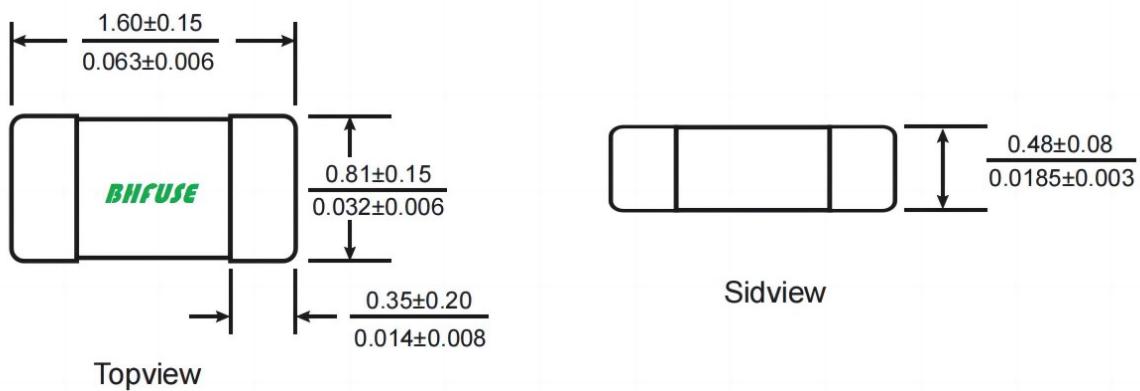
➤ Electrical Specifications

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)	
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			25	113	0.56	
BSMD0603C-1400T	S	4	32V		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	

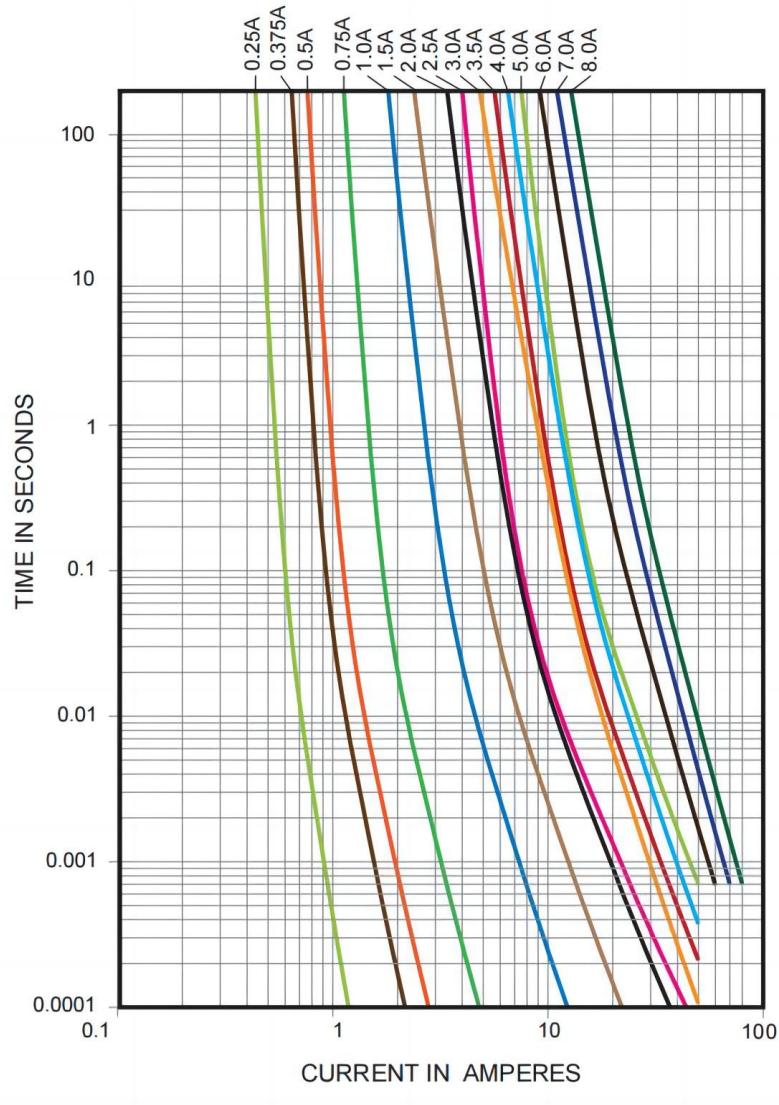
Notes:

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.

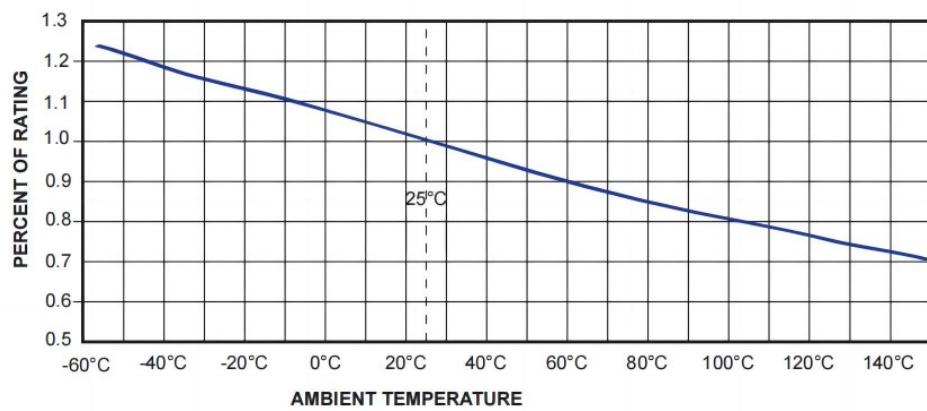
➤ Dimensions



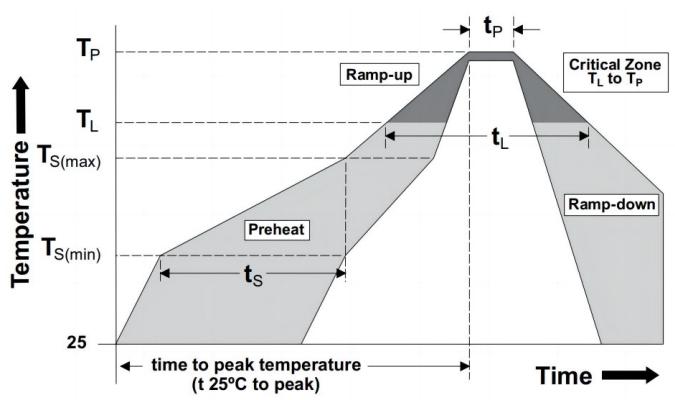
➤ Average Time-Current Curves



➤ 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($T_{S(\min)}$)
	-Temperature Max($T_{S(\max)}$)
	-Time($T_{S(\min)}$ to $T_{S(\max)}$)
Reflow	-Temperature(T_L)
	-Time(t_L)
Peak Temperature (T_P)	
Ramp-Down Rate	
Time 25°C to Peak Temperature	

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