

Type C1S

Surface Mount Slow Blow Chip Fuse

HF Pb C1S Series - 1206 Size

RoHS 6 Compliant

Features

- Slow Blow
- Small size, 1206 SMD
- Current rating from 750mA to 5A
- Wide operating temperature range from -55°C to 125°C
- Tape & Reel for automatic SMD placement
- Compatible with reflow and wave soldering
- RoHS 6 compliant (MSL = 1)
- Halogen Free
- Leadfree

Applications

- Notebook
- LCD monitor
- PC computer
- Office electronic equipment
- Industrial equipment
- Medical equipment
- POE, POE+
- LCD / LED monitor
- Power supply
- LCD / LED TV
- DC-DC Converter



LEAD FREE = 
HALOGEN FREE = 

Electrical Characteristics (UL STD. 248-14)

Testing Current	Blow Time	
	Minimum	Maximum
100%	4 Hrs.	N/A
200%	1 Sec	120 Sec
300%	0.1 Sec	3 Sec
800%	0.002 Sec	0.05 Sec

Safety Agency Approvals

SAFETY AGENCY	SAFETY AGENCY CERTIFICATE	AMPERE RANGE / VOLT @ I.R ABILITY
	E20624	750mA - 5A / 63V AC & DC @ 50A

Physical Specifications

Materials	Body : Ceramic Substrate
	Terminations : Ag / Ni / Sn (100% Lead-free)
	Element Cover Coating : Lead-free Glass
Marking	On Fuse :
	None
	On Label :
	"bel", "C1S", "Current Rating", "Voltage Rating", "Interrupting Rating", " Appropriate Safety Logos" and "  ", "  "(China RoHS compliant).

Specifications subject to change without notice



Bel Fuse Inc.
206 Van Vorst Street
Jersey City, NJ 07302 USA

+1 201.432.0463
techhelp@belf.com
belfuse.com

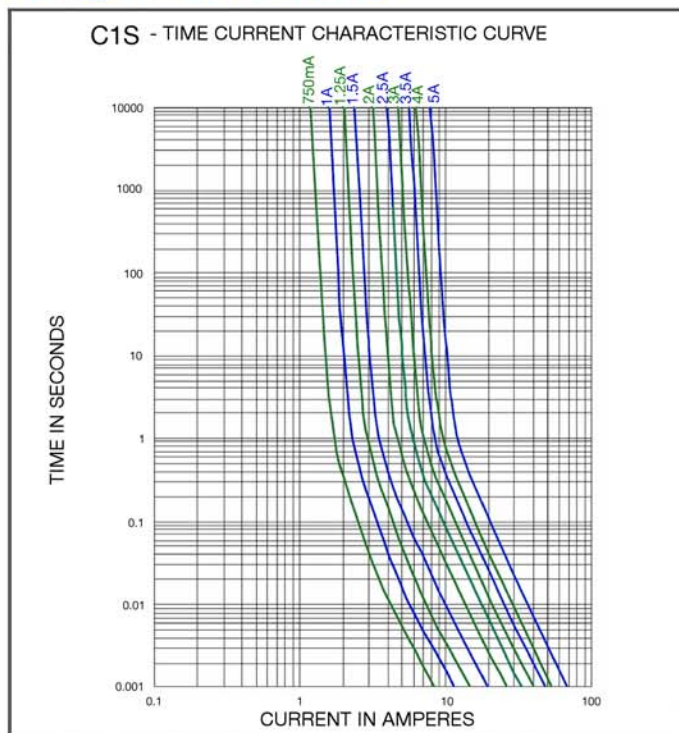
Type C1S

Surface Mount Slow Blow Chip Fuse

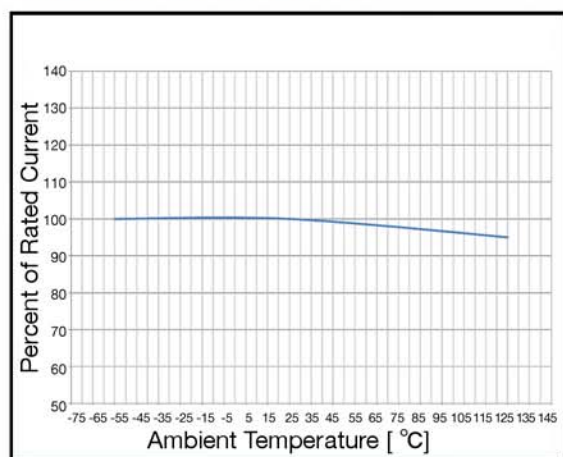
HF Pb C1S Series - 1206 Size

RoHS 6 Compliant

Average Time Current Curve



Temperature Derating Curve



Electrical Specifications

Catalog Number	Ampere Rating (A)	Nominal Cold Resistance (ohm)	Nominal Volt-drop @100% In (Volt) max.	Max. Voltage Rating (V)	Interrupting Rating	Melting I ² T @10 In (A ² Sec)	Nominal Power Dissipation @100% In (W)	Agency Approvals
								
C1S 750	750mA	0.350	0.333	63	750mA - 5A / 63V AC & DC @ 50A	0.07	0.25	Y
C1S 1	1A	0.285	0.349	63		0.12	0.35	Y
C1S 1.25	1.25A	0.225	0.346	63		0.18	0.43	Y
C1S 1.5	1.5A	0.182	0.348	63		0.27	0.52	Y
C1S 2	2A	0.105	0.254	63		0.50	0.51	Y
C1S 2.5	2.5A	0.072	0.221	63		0.75	0.55	Y
C1S 3	3A	0.050	0.182	63		1.12	0.55	Y
C1S 3.5	3.5A	0.040	0.171	63		1.69	0.60	Y
C1S 4	4A	0.032	0.160	63		2.07	0.64	Y
C1S 5	5A	0.022	0.140	63		3.10	0.70	Y

Consult manufacturer for other ratings

Specifications subject to change without notice



Bel Fuse Inc.
206 Van Vorst Street
Jersey City, NJ 07302 USA

+1 201.432.0463
techhelp@belf.com
belfuse.com

Type C1S

Surface Mount Slow Blow Chip Fuse

HF Pb C1S Series - 1206 Size

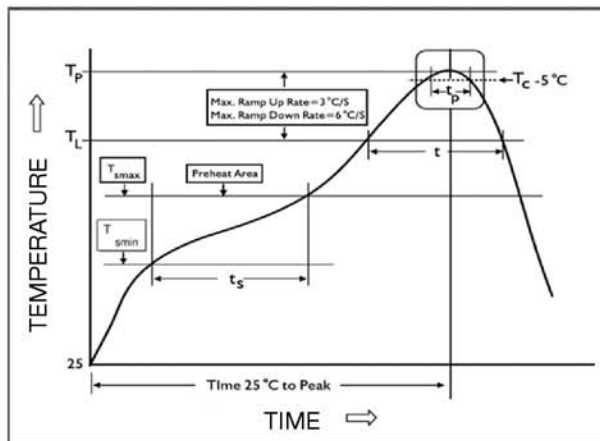
RoHS 6 Compliant

Environmental Specifications

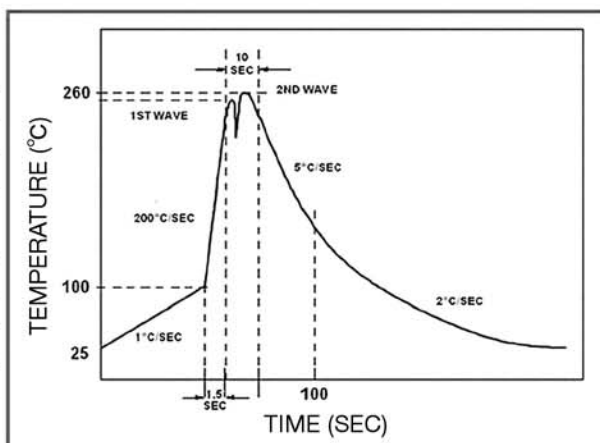
Shock Resistance	MIL-STD-202G, Method 213B, Test Condition 1 (100 G's peak for 6 milliseconds; Sawtooth waveform)
Vibration Resistance	MIL-STD-202G, Method 201A(10-55 Hz,0.06 inch, total excursion).
Salt Spray Resistance	MIL-STD-202G, Method 101E, Test Condition B(48 hrs).
Insulation Resistance	MIL-STD-202G, Method 302, Test Condition A (After Opening) 10,000 ohms minimum.
Solderability	MIL-STD-202G, Method 208H
Resistance to solder Heat	MIL-STD-202G, Method 210F, Test Condition C. Top Side(260°C, 20 sec) MIL-STD-202G, Method 210F, Test Condition D.Bottom Side(260°C,10 sec)
Thermal Shock	MIL-STD-202G, Method 107G, Test Condition B (-65°C to +125°C).
Operating Temperature	-55°C to +125°C
Moisture Sensitivity Level	1 (According to IPC J-Std-020)

Soldering Parameters

Lead-Free IR Reflow Profile (IPC/JEDEC J-STD-020D)	
Reflow Parameter	
Minimum preheat temperature(TsMIN)	150°C
Maximum preheat temperature(TsMAX)	200°C
Preheat Time	60-180 seconds
TsMAX to TL ramp-up rate	3°C / second max.
Time above temperature TL(tL)	217°C 60-120 seconds
Peak Temperature (TP)	260°C max
Time Within 5° of Peak TP	20 - 40 seconds
Ramp-down rate	6°C / second max.



Lead-free Wave Soldering Profile	
Wave Soldering Parameter	
Average ramp-up rate	200°C / second
Heating rate during preheat	typical 1 - 2°C / second Max 4°C / second
Final preheat temperature	within 125°C of soldering temperature
Peak temperature (Tp)	260°C
Time within +0°C/-5°C of actual peak temperature	10 seconds
Ramp-down rate	5°C / second max.



Specifications subject to change without notice



Bel Fuse Inc.
206 Van Vorst Street
Jersey City, NJ 07302 USA

+1 201.432.0463
techhelp@belf.com
belfuse.com

Type C1S

Surface Mount Slow Blow Chip Fuse

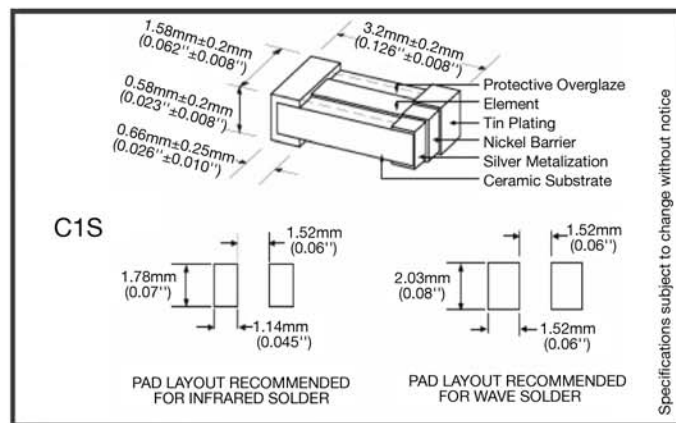
HF Pb C1S Series - 1206 Size

RoHS 6 Compliant

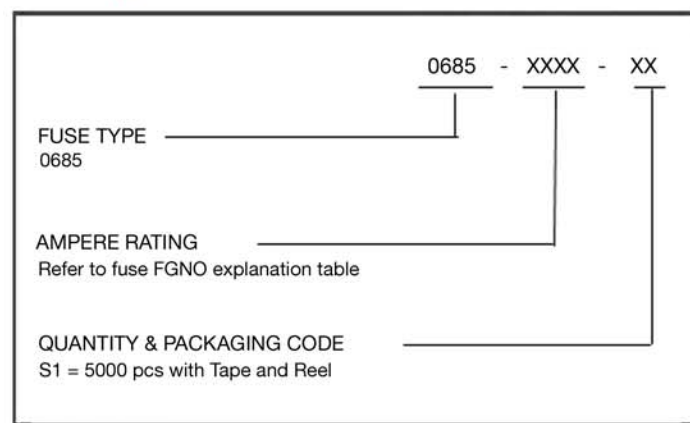
Fuse FGNO Explanation 06XX X [XXXX] X XX, [XXXX]=Ampere Rating

Fraction	Decimal	Milliamps	Bel FGNO[XXXX]	Fraction	Decimal	Amps	Bel FGNO[XXXX]
1/32	0.032	32	0032	1-1/4	1.25	1.25	1250
1/25	.040	40	0040	1-1/2	1.50	1.5	1500
1/20	.050	50	0050		1.60	1.6	1600
1/16	.063	63	0063		2.0	2	2000
8/100	.080	80	0080	2-1/4	2.25	2.25	2250
1/10	.100	100	0100	2-1/2	2.5	2.5	2500
1/8	.125	125	0125		3.0	3	3000
15/100	.150	150	0150		3.15	3.15	3150
	.160	160	0160	3-1/2	3.5	3.5	3500
2/10	.200	200	0200		4.0	4	4000
1/4	.250	250	0250		5.0	5	5000
3/10	.300	300	0300		6.0	6	6000
	.315	315	0315		6.3	6.3	6300
3/8	.375	375	0375		7.0	7	7000
4/10	.400	400	0400	7-1/2	7.5	7.5	7500
1/2	.500	500	0500		8.0	8	8000
6/10	.600	600	0600			10	9100
	.630	630	0630			12	9120
7/10	.700	700	0700			15	9150
3/4	.750	750	0750			20	9200
8/10	.800	800	0800			25	9250
						30	9300

Mechanical Dimensions



Ordering Information



Packaging

Packaging Tape & Reel	Packaging Specification	Quantity	Quantity & Packaging Code
8 mm wide tape with 7 inches Diameter reel	EIA Standard 481-D	5000	0685-XXXX-S1

Specifications subject to change without notice



Bel Fuse Inc.
206 Van Vorst Street
Jersey City, NJ 07302 USA

+1 201.432.0463
techhelp@belf.com
belfuse.com