

Type SST

Square Ceramic Surface Mount Slow Blow Fuse

2410 Size
RoHS 6 Compliant

SST Series Fuse



Features

- Slow Blow
- Small size, 2410SMD
- Wide range of current rating from 375mA to 7A
- Wide operating temperature range
- Tape and Reel for auto-insert SMD process.
- RoHS 6 compliant (MSL = 1)
- Halogen Free
- Leadfree

Electrical Characteristics (UL / CSA / STD.248-14)

Testing Current	Blow Time	
	Minimum	Maximum
100%	4 Hrs.	N/A
200%	1 Sec	60 Sec
300%	0.2 Sec	3 Sec
800%	0.02 Sec	0.1 Sec

Safety Agency Approvals

SAFETY AGENCY	SAFETY AGENCY CERTIFICATE	AMPERE RANGE / VOLT @ I.R.ABILITY
	LR39772	375mA - 7A / 125V @50A AC and DC
	E20624	
		

Applications

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

HALOGEN FREE = LEAD FREE = 

Specifications Subject to change without notice.

Environmental Specifications

Shock Resistance	MIL-STD-202G, Method 213B, Test Condition I (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)

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HF Pb

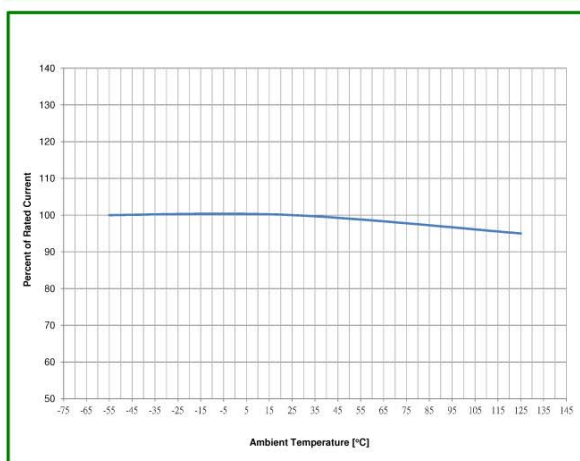
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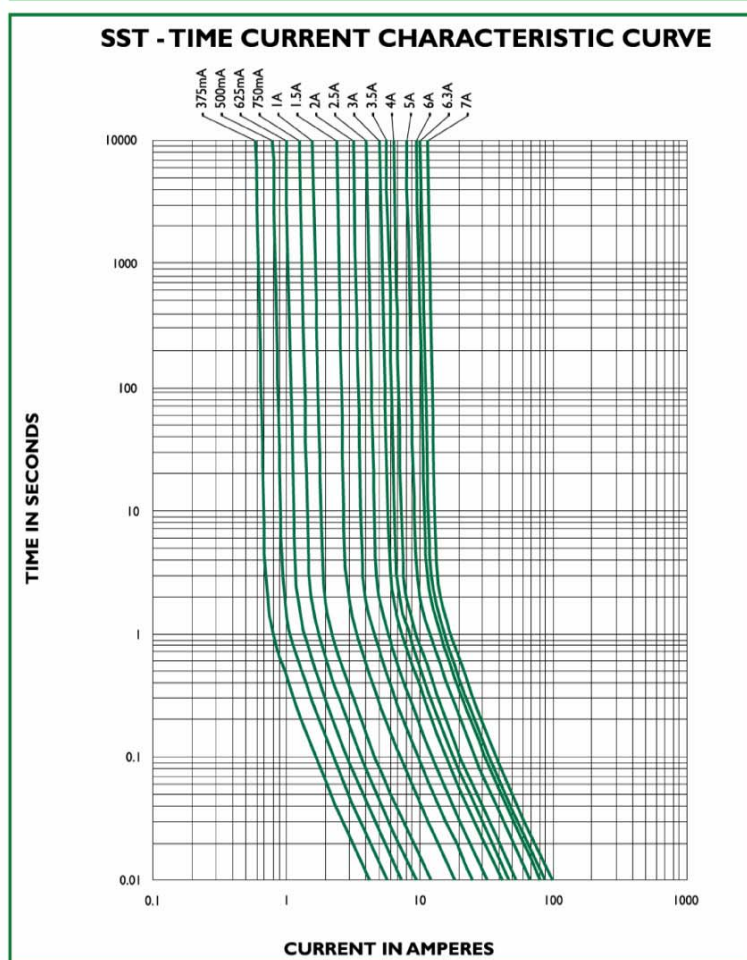
Electrical Specifications

Catalog Number	Ampere Rating (A)	Typical Cold Resistance (ohm)	Volt-drop @100% In (volt) Max.	Voltage Rating (V)	Interrupting Rating	Melting I2T <10 m Sec (A2 Sec)	Melting I2T @ 10 In (A2 Sec)	Maximum Power Dissipation (W)	Agency Approvals		
									UL	SP	CE
SST375	375mA	0.72	0.53	125	125V @ 50A AC and DC	0.15	0.15	0.25	Y	Y	Y
SST500	500mA	0.49	0.52	125		0.27	0.28	0.30	Y	Y	Y
SST625	625mA	0.40	0.50	125		0.45	0.47	0.35	Y	Y	Y
SST750	750mA	0.25	0.42	125		0.66	0.69	0.39	Y	Y	Y
SST1	1A	0.162	0.35	125		1.2	1.3	0.47	Y	Y	Y
SST 1.5	1.5A	0.081	0.26	125		3	3.1	0.62	Y	Y	Y
SST 2	2A	0.061	0.24	125		5	5.7	0.68	Y	Y	Y
SST2.5	2.5A	0.044	0.22	125		9	9	0.74	Y	Y	Y
SST3	3A	0.033	0.20	125		14	16	0.80	Y	Y	Y
SST3.5	3.5A	0.027	0.19	125		18	20	0.84	Y	Y	Y
SST4	4A	0.024	0.19	125		23	26	0.88	Y	Y	Y
SST5	5A	0.017	0.18	125		38	43	0.95	Y	Y	Y
SST6	6A	0.013	0.18	125		56	63	1.02	Y	Y	Y
SST6.3	6.3A	0.012	0.17	125		62	70	1.03	Y	Y	Y
SST7	7A	0.011	0.16	125		80	90	1.08	Y	Y	Y

Temperature Derating Curve



Average Time Current Curve



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Bel Fuse Inc. 206 Van Vorst Street, Jersey City, NJ 07302 • Tel: 201-432-0463 • Fax: 201-432-9542 • E-Mail: belfuse@belf.com

Website: www.belfuse.com

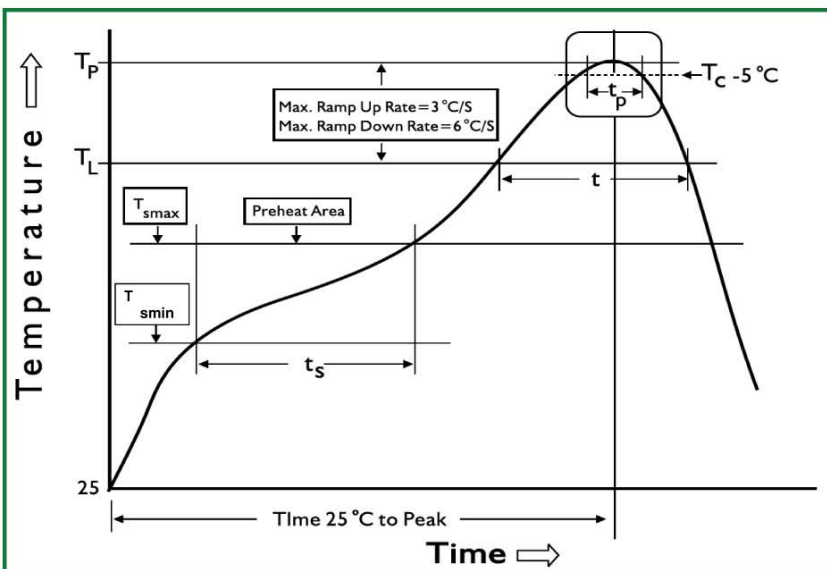
RoHS

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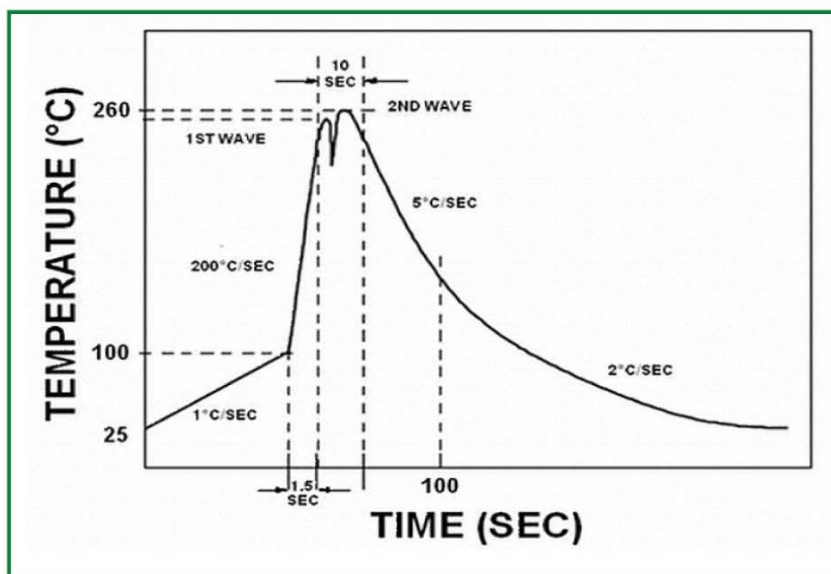
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Type SST**Square Ceramic Surface Mount Slow Blow Fuse**2410 Size
RoHS 6 Compliant**Soldering Parameters****Lead-Free IR Reflow Profile (IPC/JEDEC J-STD-020D)**

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.



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HF (Pb)

bel

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Physical Specifications

Materials	Body : Ceramic
	Terminations: Palladium Plated Brass Caps
Marking	On Fuse:
	" Current Rating" in green color,
	" bel " stamped in end caps
	On label:
	"bel" , "SST", "Current Rating", "Voltage Rating", "Interrupting Rating", "Appropriate Safety Logos" and " " (China RoHS compliant).

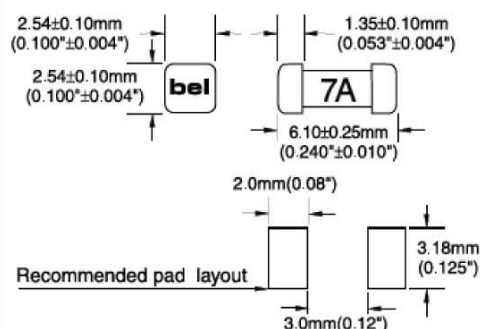
Fuse FGNO Explanation

06XX-XXXX-XX, [XXXX]=Ampere Rating

Fraction	Decimal	Milliamps	Bel FGNO[XXXX]
1/32	.032	32	0032
1/25	.040	40	0040
1/20	.050	50	0050
1/16	.063	63	0063
8/100	.080	80	0080
1/10	.100	100	0100
1/8	.125	125	0125
15/100	.150	150	0150
	.160	160	0160
2/10	.200	200	0200
1/4	.250	250	0250
3/10	.300	300	0300
	.315	315	0315
3/8	.375	375	0375
4/10	.400	400	0400
1/2	.500	500	0500
6/10	.600	600	0600
	.630	630	0630
7/10	.700	700	0700
3/4	.750	750	0750
8/10	.800	800	0800

Fraction	Decimal	Amps	Bel FGNO[XXXX]
	1.0	1	1000
1-1/4	1.25	1.25	1250
1-1/2	1.50	1.5	1500
	1.60	1.6	1600
	2.0	2	2000
2-1/4	2.25	2.25	2250
2-1/2	2.5	2.5	2500
	3.0	3	3000
	3.15	3.15	3150
3-1/2	3.5	3.5	3500
	4.0	4	4000
	5.0	5	5000
	6.0	6	6000
	6.3	6.3	6300
	7.0	7	7000
7-1/2	7.5	7.5	7500
	8.0	8	8000
		10	9100
		12	9120
		15	9150
		20	9200
		25	9250
		30	9300

Mechanical Dimensions



Specifications subject to change without notice

Ordering Information

FUSE TYPE	0680
AMPERE RATING	Refer to fuse FGNO explanation table
QUANTITY & PACKAGING CODE	01 = 1000 pcs with Tape and Reel 05 = 5000 pcs with Tape and Reel

Packaging

Packaging Tape & Reel	Packaging Specification	Quantity	Quantity & Packaging Code
12 mm wide tape with 13 inches Diameter reel	EIA Standard 481-D	5000	05
12 mm wide tape with 7 inches Diameter reel	EIA Standard 481-D	1000	01

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CORPORATE OFFICE

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