RoHS

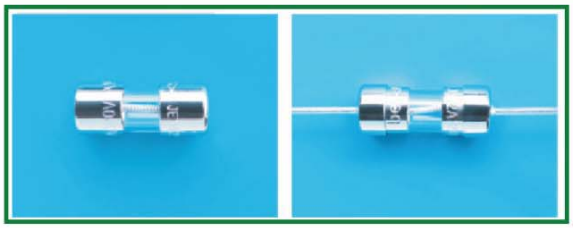
bel

JS Apr2013D

Type 2JS / 3JS
Time-lag Fuse Series

5 x 15mm Glass Tube
RoHS 6 Compliant

HF Pb **2JS / 3JS Series, 5 x 15mm Time-lag Fuse**



Description

5x15 mm Time -lag ,glass tube body cartridge fuse designed, approved and complied with UL and CSA standard 248-14.

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

Testing current	Blow Time	
	Minimum	Maximum
100%	4 hrs.	N/A
135%	N/A	1 hr
200%	3 sec	20 sec
500%	100 msec	1.5 sec
1000%	30 msec	300 msec

Features

- Meet UL and CSA standard 248-14
- Wide operating temperature range
- Bulk and Tape & Reel packing available
- RoHS6 compliant
- Halogen Free
- Leadfree

Applications

Provide individual protection for components or internal circuits.
- Power Supplies
- Battery charger
- Monitor
- Adapter

LEAD FREE = Pb

HALOGEN FREE = HF

Safety Agency Approvals

SAFETY AGENCY	SAFETY AGENCY CERTIFICATE NUMBER	AMPERE RANGE / VOLT @ I.R.ABILITY
c UL us	E20624	100mA - 7A / 350V AC @100A 100mA - 7A / 125V AC @10,000A 100mA - 7A / 140V DC @150A
CSA	LR39772	100mA - 7A / 350V AC @100A 100mA - 7A / 125V AC @10,000A
PSE	JET 1037-31003-1010 JET 1037-31003-1011	1A - 5A / 125V AC @500A
	JET 1037-31003-1007	>5A - 15A / 125V AC @300A
CE		100mA - 7A / 350V AC @100A 100mA - 7A / 125V AC @10,000A 100mA - 7A / 140V DC @150A

Specifications subject to change without notice

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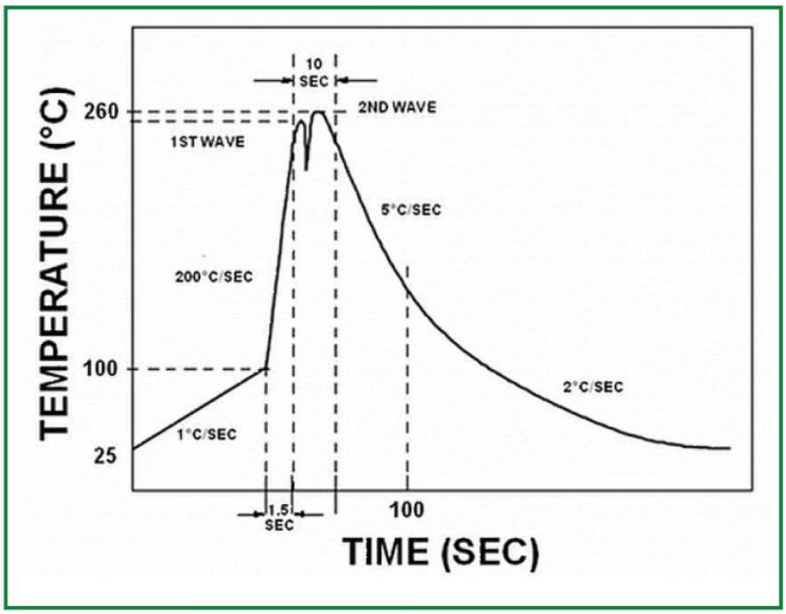
Electrical Specifications

Catalog Number	Ampere Rating	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			
									cULus	CSA	PSE	CE
JS 100-R	100mA	13.5	2.42	350	100mA - 7A / 350V AC @100A 100mA - 7A / 125V AC @10,000A 100mA - 7A / 140V DC @150A	0.068	0.088	0.22	Y	Y		Y
JS 125-R	125mA	7.7	1.68	350		0.107	0.138	0.24	Y	Y		Y
JS 150-R	150mA	5.6	1.56	350		0.167	0.216	0.27	Y	Y		Y
JS 200-R	200mA	3.5	1.20	350		0.26	0.34	0.30	Y	Y		Y
JS 250-R	250mA	2.3	0.96	350		0.41	0.53	0.34	Y	Y		Y
JS 300-R	300mA	1.5	0.78	350		0.64	0.83	0.36	Y	Y		Y
JS 350-R	350mA	1.1	0.67	350		0.80	1.0	0.40	Y	Y		Y
JS 400-R	400mA	0.86	0.59	350		0.99	1.3	0.42	Y	Y		Y
JS 500-R	500mA	0.62	0.53	350		1.6	2.0	0.47	Y	Y		Y
JS 600-R	600mA	0.44	0.53	350		2.2	2.3	0.49	Y	Y		Y
JS 700-R	700mA	0.32	0.42	350		3.0	4.0	0.54	Y	Y		Y
JS 750-R	750mA	0.28	0.38	350		3.0	4.0	0.55	Y	Y		Y
JS 800-R	800mA	0.23	0.37	350		5.0	7.0	0.60	Y	Y		Y
JS 1-R	1A	0.19	0.36	350		5.9	7.8	0.64	Y	Y	Y	Y
JS 1.25-R	1.25A	0.13	0.30	350		9.3	12	0.71	Y	Y	Y	Y
JS 1.5-R	1.5A	0.094	0.23	350		15	19	0.80	Y	Y	Y	Y
JS 2-R	2A	0.063	0.22	350		23	30	0.89	Y	Y	Y	Y
JS 2.5-R	2.5A	0.046	0.21	350		35	46	0.99	Y	Y	Y	Y
JS 3-R	3A	0.037	0.19	350		55	72	1.10	Y	Y	Y	Y
JS 3.5-R	3.5A	0.030	0.18	350		69	91	1.16	Y	Y	Y	Y
JS 4-R	4A	0.026	0.18	350		86	114	1.22	Y	Y	Y	Y
JS 5-R	5A	0.018	0.16	350		135	179	1.36	Y	Y	Y	Y
JS 6-R	6A	0.015	0.16	350		211	279	1.51	Y	Y	Y	Y
JS 7-R	7A	0.012	0.15	350		263	350	1.60	Y	Y	Y	Y

Consult manufacturer for other ratings

Soldering Parameters

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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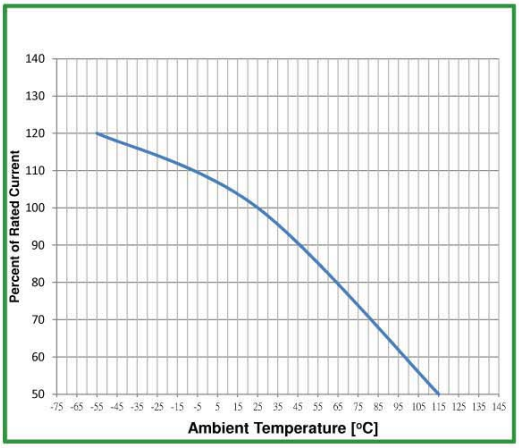
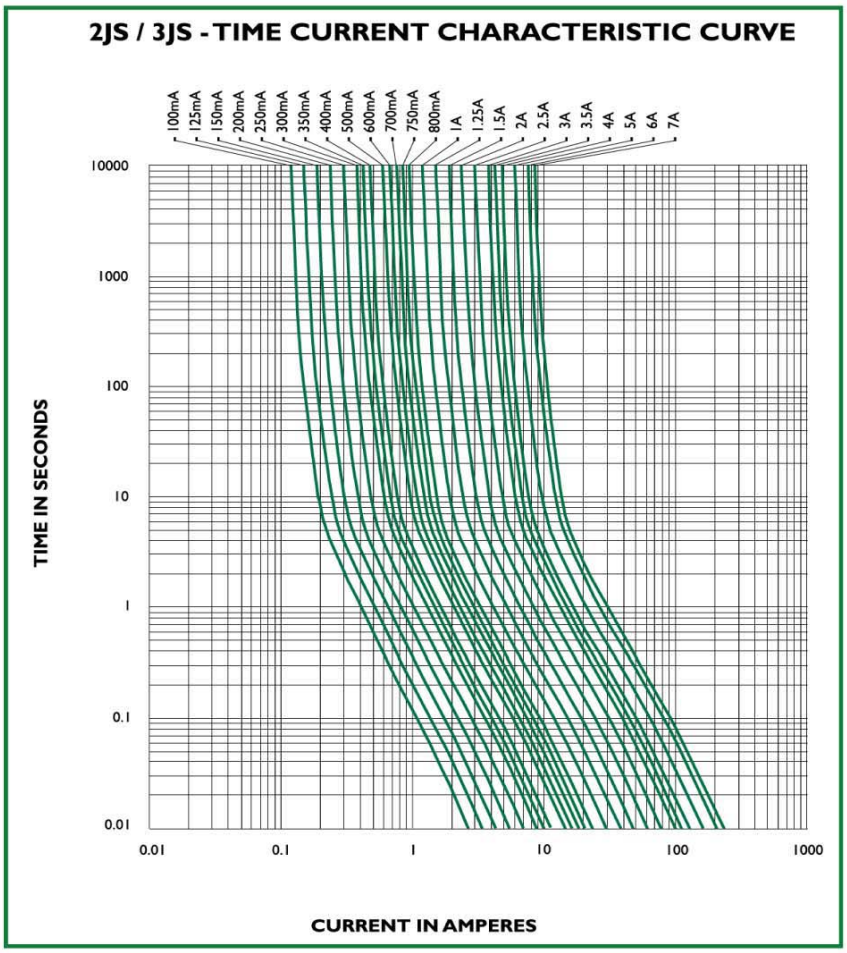
JS Apr2013C

Temperature Derating Curve



Average Time Current Curve



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 B.(260+/-5℃,10+/- 1 sec)
Thermal Shock	MIL-STD-202G, Method 107G, Test Condition B (-65℃ to +125℃).
Operating Temperature	-55℃ to +125℃
Terminal Strength	IEC-68-2-21

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Physical Specifications

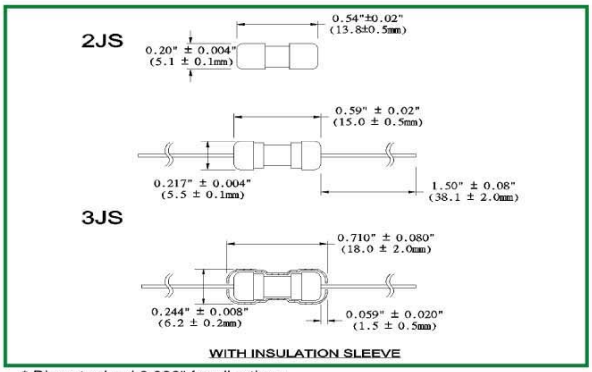
Materials	Body : Glass
	Cap : Nickel Plated Brass Caps
	Leads: Matte Tin Plated Copper
Marking	On Fuse:
	"bel" , "JS" ," Current Rating","Voltage Rating",
	"Appropriate Safety Logos"," ✔ "(RoHS 6 compliant)
	On label:
	"bel" , "2JS", or "3JS","Current Rating","Voltage Rating","Interrupting Rating", "Appropriate Safety Logos" and " ","e "(China RoHS compliant).

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

Fraction	Decimal	Milliamps	Bel FGNO[XXXX]
1/32	0.032	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



* Diameter lead 0.032" for all ratings

Ordering Information

0658 R XXXX - X X

FUSE TYPE
0658

R = RoHS Compliant

AMPERE RATING
Refer to fuse FGNO explanation table

MECHANICAL CODE
0 = 2JS, Cartridge
1 = 3JS, Pigtail
4 = 3JS with VW Sleeve

PACKAGING CODE
1 = 2JS Cartridge, 2K/Box
1 = 3JS Pigtail, Bulk, 1K/Box
2 = 3JS Pigtail, T&R, 1500/Reel

Specifications subject to change without notice

Packaging

Packaging Option	Packaging Specification	Quantity	Packaging Code	Inside Tape Spacing
Bulk (bag)	N/A	2000	01	N/A
Bulk (Pigtail Type)	N/A	1000	11	N/A
Bulk (Pigtail Type) with Insulation Sleeve	N/A	1000	41	N/A
Tape & Reel, 10 mm Pitch	EIA-296-F	1500	12	53
Tape & Reel with Insulation Sleeve,10 mm Pitch	EIA-296-F	1500	42	53

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