Type 2JS / 3JS

Time-lag Fuse Series

HF Pb 2JS/3JS Series, 5x15mm Glass Tube Time-lag Fuse — RoHS 6 Compliant





Description

5x15mm Time-lag , glass tube body cartridge fuse designed, approved and complied with UL and CSA standard 248-14.

Features

- Meet UL and CSA standard 248-14
- Wide operating temperature range
- Bulk and Tape & Reel packing available
- RoHS 6 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

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 " ", " "(China RoHS compliant).

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

Safety Agency Approvals

SAFETY AGENCY	SAFETY AGENCY CERTIFICATE NUMBER	VOLTAGE RATING (V)	AMPERE RANGE / VOLT @ I.R. ABILITY*
cULus	E20624	100mA - 7A / 350V AC	100mA - 7A / 350V AC@ 100A 100mA - 7A / 125V AC@ 10,000A 100mA - 7A / 140V DC@ 150A
SP	LR39772		100mA - 7A / 350V AC@ 100A 100mA - 7A / 125V AC@ 10,000A
PS E	JET1037-31003-1010 JET1037-31003-1011		1A - 5A / 125V AC @ 500A
	JET1037-31003-1007		>5A - 15A / 125V AC@ 300A

* I.R. = INTERRUPTING RATING = SHORT CIRCUIT RATING (AMPS)

Specifications subject to change without notice

bel POWER SOLUTIONS & PROTECTION
a bel group

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

+1 201.432.0463
techhelp@belf.com
belfuse.com

© 2016 Bel Fuse, Inc.

Type 2JS / 3JS

Time-lag Fuse Series

HF Pb 2JS/3JS Series, 5x15mm Glass Tube Time-lag Fuse — 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 B.(260+/-5 °C,10+/-1 sec)
Thermal Shock	MIL-STD-202G, Method 107G, Test Condition B (-65 °C to +125 °C).
Operating Temperature	-55 °C to +125 °C
Terminal Strength	IEC-68-2-21

Electrical Specifications

Catalog Number	Ampere Rating	Typical Cold Resistance (ohm)	Volt-drop @100% In (Volt) max.	Voltage and Interrupting Ratings	Melting I²T <10 mSec (A² Sec)	Melting I²T @10 In (A² Sec)	Maximum Power Dissipation (W)	Agency Approvals		
								cULus	SP	
JS 100-R	100mA	13.5	2.42	See Table of Safety Approvals on Page 1 for Voltage and associated Interrupting Ratings	0.068	0.088	0.22	Y	Y	
JS 125-R	125mA	7.7	1.68		0.107	0.138	0.24	Y	Y	
JS 150-R	150mA	5.6	1.56		0.167	0.216	0.27	Y	Y	
JS 200-R	200mA	3.5	1.20		0.26	0.34	0.30	Y	Y	
JS 250-R	250mA	2.3	0.96		0.41	0.53	0.34	Y	Y	
JS 300-R	300mA	1.5	0.78		0.64	0.83	0.36	Y	Y	
JS 350-R	350mA	1.1	0.67		0.80	1.0	0.40	Y	Y	
JS 400-R	400mA	0.86	0.59		0.99	1.3	0.42	Y	Y	
JS 500-R	500mA	0.62	0.53		1.6	2.0	0.47	Y	Y	
JS 600-R	600mA	0.44	0.53		2.2	2.3	0.49	Y	Y	
JS 700-R	700mA	0.32	0.42		3.0	4.0	0.54	Y	Y	
JS 750-R	750mA	0.28	0.38		3.0	4.0	0.55	Y	Y	
JS 800-R	800mA	0.23	0.37		5.0	7.0	0.60	Y	Y	
JS 1-R	1A	0.19	0.36		5.9	7.8	0.64	Y	Y	Y
JS 1.25-R	1.25A	0.13	0.30		9.3	12	0.71	Y	Y	Y
JS 1.5-R	1.5A	0.094	0.23		15	19	0.80	Y	Y	Y
JS 2-R	2A	0.063	0.22		23	30	0.89	Y	Y	Y
JS 2.5-R	2.5A	0.046	0.21		35	46	0.99	Y	Y	Y
JS 3-R	3A	0.037	0.19		55	72	1.10	Y	Y	Y
JS 3.5-R	3.5A	0.030	0.18		69	91	1.16	Y	Y	Y
JS 4-R	4A	0.026	0.18		86	114	1.22	Y	Y	Y
JS 5-R	5A	0.018	0.16		135	179	1.36	Y	Y	Y
JS 6-R	6A	0.015	0.16		211	279	1.51	Y	Y	Y
JS 7-R	7A	0.012	0.15		263	350	1.60	Y	Y	Y

Consult manufacturer for other ratings

Specifications subject to change without notice

bel POWER SOLUTIONS & PROTECTION
a bel group

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

+1 201.432.0463
techhelp@belf.com
belfuse.com

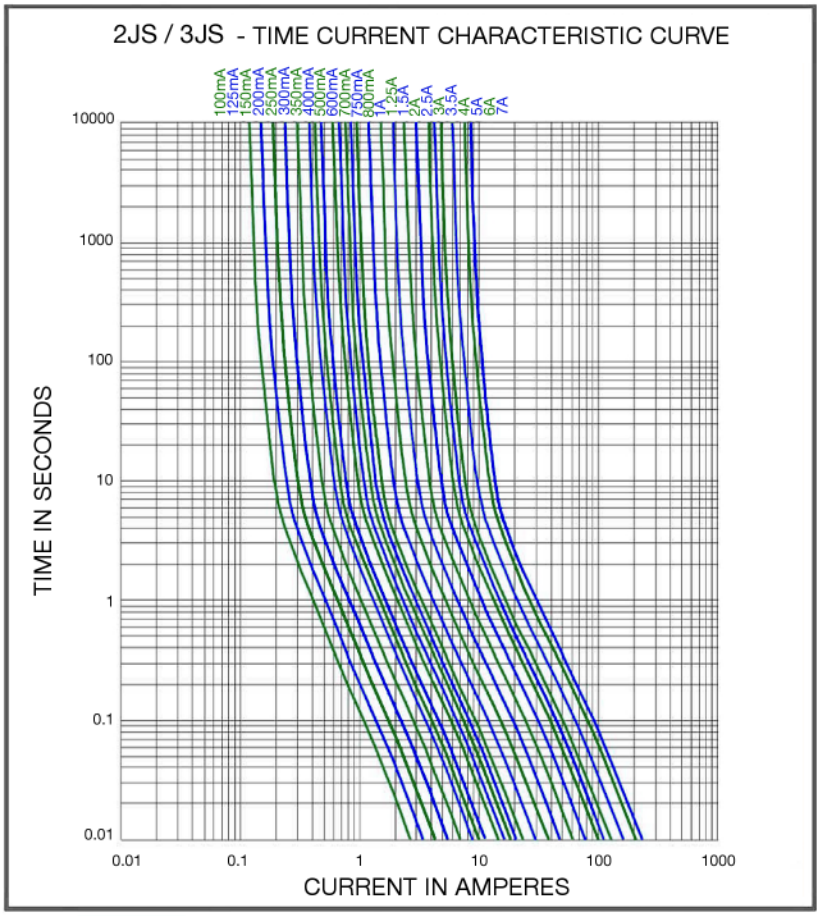
© 2016 Bel Fuse, Inc.

Type 2JS / 3JS

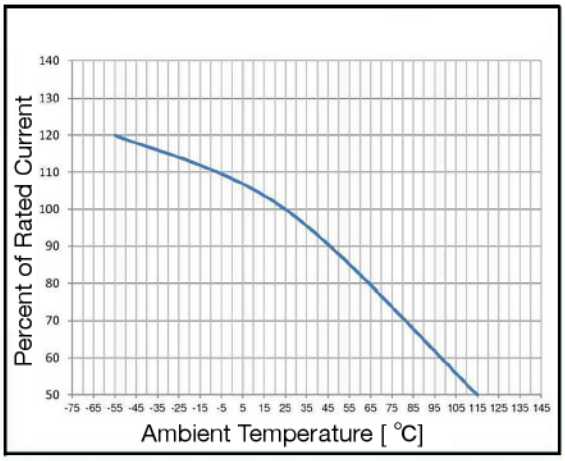
Time-lag Fuse Series

HF Pb 2JS/3JS Series, 5x15mm Glass Tube Time-lag Fuse — RoHS 6 Compliant

Average Time Current Curve

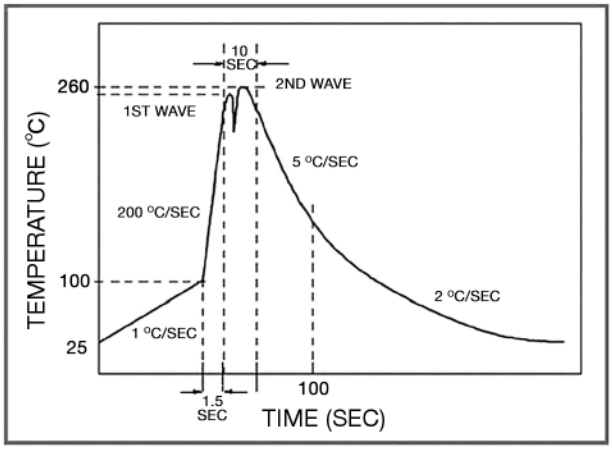


Temperature Derating Curve



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.



Specifications subject to change without notice

bel POWER SOLUTIONS & PROTECTION
a bel group

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

+1 201.432.0463
techhelp@belf.com
belfuse.com

© 2016 Bel Fuse, Inc.

Type 2JS / 3JS

Time-lag Fuse Series

HF Pb 2JS/3JS Series, 5x15mm Glass Tube Time-lag Fuse — RoHS 6 Compliant

Fuse FGNO Explanation

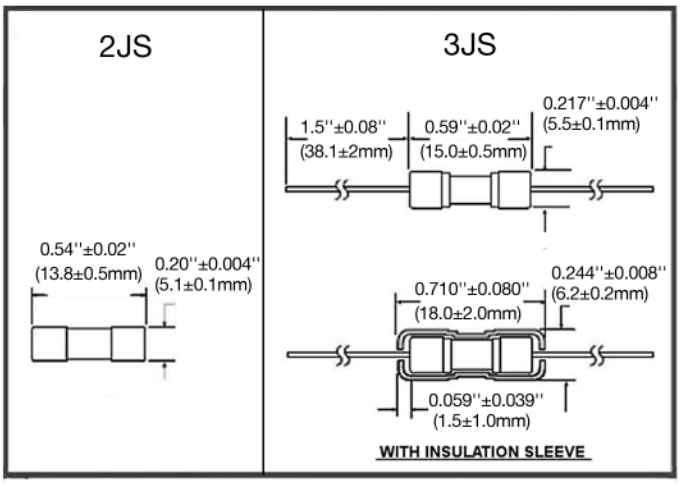
0658 R [XXXX] - XX

0658R=2JS/3JS; [XXXX]=Ampere Rating; XX=See Ordering Information as below

Fraction	Decimal	Milliamps	Bel FGNO[XXXX]
1/10	0.100	100	0100
1/8	.125	125	0125
15/100	.150	150	0150
2/10	.200	200	0200
1/4	.250	250	0250
3/10	.300	300	0300
35/100	.350	350	0350
4/10	.400	400	0400
1/2	.500	500	0500
6/10	.600	600	0600
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
	2.0	2	2000
2-1/2	2.5	2.5	2500
	3.0	3	3000
3-1/2	3.5	3.5	3500
	4.0	4	4000
	5.0	5	5000
	6.0	6	6000
	7.0	7	7000

Mechanical Dimensions



*Diameter lead 0.032" for all ratings

Ordering Information

0658 R XXXX - X X

FUSE TYPE
0658R = 2JS / 3JS Series
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

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, 10mm Pitch	EIA-296-F	1500	12	53
Tape & Reel with Insulation Sleeve, 10mm Pitch	EIA-296-F	1500	42	53

Specifications subject to change without notice

bel POWER SOLUTIONS & PROTECTION
a bel group

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

+1 201.432.0463
techhelp@belf.com
belfuse.com

© 2016 Bel Fuse, Inc.