

Type 3SB

Slow Blow Fuse Series

HF **Pb** 3SB Series, 6x32mm Glass Tube Slow Blow Fuse

RoHS Compliant

Description

6x32mm Slow Blow, 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 packing available
- Full compliance with EU Directive 2011/65/EU and amending directive 2015/863
- Halogen Free
- Lead Free

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", "3SB", "Current Rating", "Voltage Rating",
	"Appropriate Safety Logos", "✓" (RoHS compliant)
	On Label :
	"bel", "3SB", "Current Rating", "Voltage Rating", "Interrupting Rating", "Appropriate Safety Logos" and "✓", "RoHS" (China RoHS compliant).

Electrical Characteristics (UL/CSA STD,248-14) Safety Agency Approvals

Testing Current	Blow Time	
	Minimum	Maximum
100%	4 hrs.	N/A
135%	N/A	1 Hr
200%	5 sec	30 sec

Safety Agency	Safety Agency Certificate	Ampere Rating/ Voltage Rating	Ampere Range / Volt @ I.R. ability*
UL	E20624	500mA-8A/ 250V AC	500mA-8A/125V AC@10,000A 500mA-8A/250V AC@200A 8.1A-15A/125V AC@10,000A
SP	LR39772	8.1A-15A/ 125V AC	500mA-1A/250V AC@35A >1A-3.5A/250V AC@100A >3.5A-8A/250V AC@200A 8.1A-15A/125V AC@10,000A
*I.R.= Interrupting Rating = Short Circuit Rating(Amps)			

Environmental Specifications

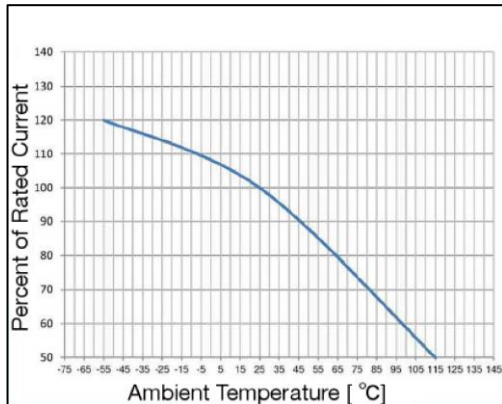
Shock Resistance	MIL-STD-202G, Method 213B, Test Condition 1 (100 G's peak for 6 milliseconds; Sawtooth waveform)
Vibration Resistance	MIL-STD-202G, Method 201A (10-55 Hz, 0.06 inch, total excursion).
Salt Spray Resistance	MIL-STD-202G, Method 101E, Test Condition B (48 hrs).
Insulation Resistance	MIL-STD-202G, 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

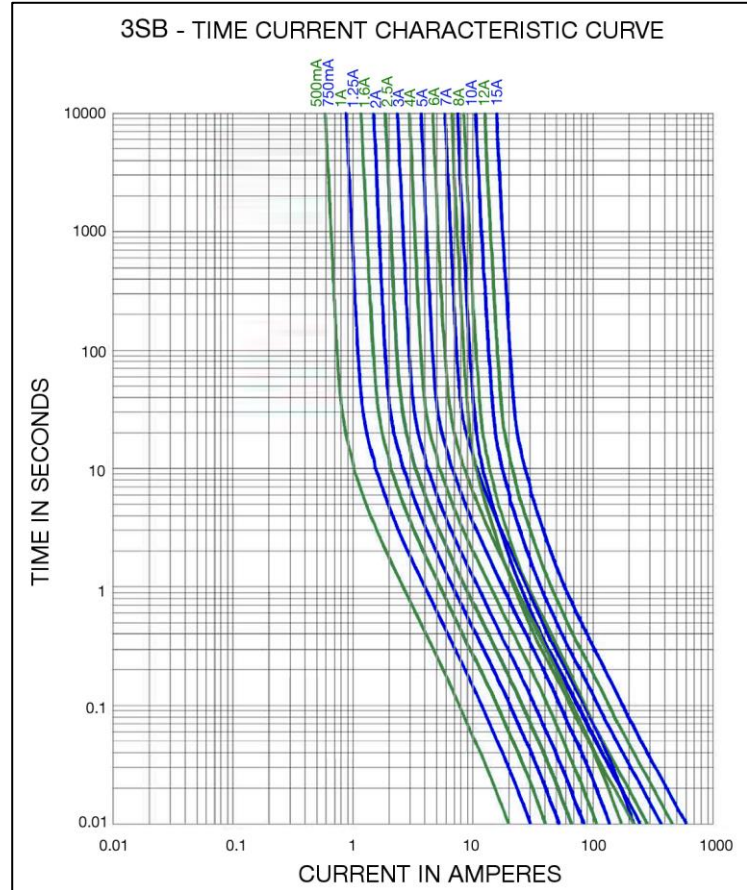
Catalog Number	Ampere Rating	Typical Cold Resistance (ohms)	Volt-drop @100%In (Volt) max.	Voltage and Interrupting Ratings	Melting I²T <10 mSec (A² Sec)	Melting I²T @10 In (A² Sec)	Maximum Power Dissipation (W)	Agency Approvals	
									
3SB 500-R	500mA	1.38	1.07	See Table of Safety Approvals on Page 1 for Voltage and associated Interrupting Ratings	4.4	5.4	0.8	Y	Y
3SB 750-R	750mA	0.642	0.68		9	10	0.8	Y	Y
3SB 1-R	1A	0.374	0.59		16	21	0.9	Y	Y
3SB 1.25-R	1.25A	0.248	0.43		25	32	0.9	Y	Y
3SB 1.6-R	1.6A	0.155	0.38		39	50	1.0	Y	Y
3SB 2-R	2A	0.115	0.36		61	79	1.0	Y	Y
3SB 2.5-R	2.5A	0.079	0.29		94	123	1.1	Y	Y
3SB 3-R	3A	0.058	0.27		146	192	1.1	Y	Y
3SB 4-R	4A	0.039	0.23		226	300	1.2	Y	Y
3SB 5-R	5A	0.029	0.22		349	469	1.3	Y	Y
3SB 6-R	6A	0.018	0.19		286	455	1.6	Y	Y
3SB 7-R	7A	0.016	0.18		372	592	1.8	Y	Y
3SB 8-R	8A	0.013	0.17		483	769	1.9	Y	Y
3SB 10-R	10A	0.010	0.17		817	1300	2.3	Y	Y
3SB 12-R	12A	0.008	0.15		1277	2031	2.6	Y	Y
3SB 15-R	15A	0.006	0.15		2123	3377	3.0	Y	Y

Consult manufacturer for other ratings

Temperature Derating Curve

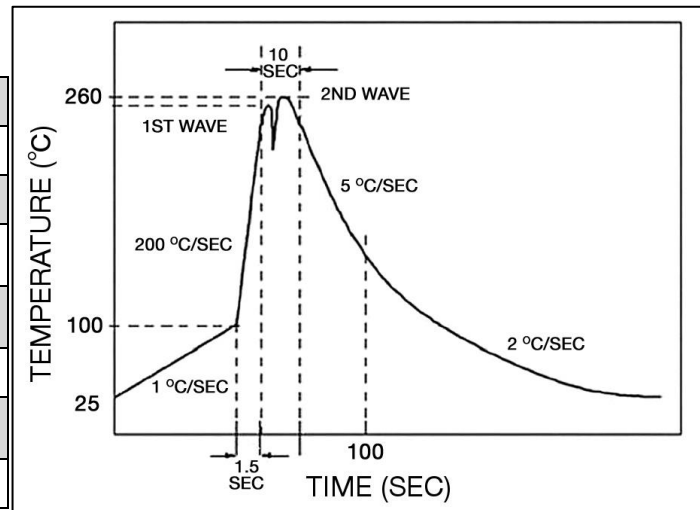


Average Time Current Curve



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 T _p	260°C
Time within +0°C / -5°C of actual peak temperature	10 seconds
Ramp-down rate	5°C / second max.



Type 3SB

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3SB(P) Fuse FGNO Explanation

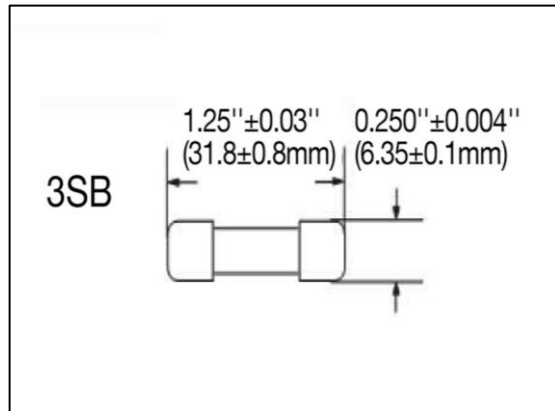
06X2 R [XXXX] -XX

0602R=3SB; [XXX1]=Ampere Rating; XX=See Ordering Information as below

Catalog number	FGNO / Order Number
3SB 500-R	0602R0501-33
3SB 750-R	0602R0751-33

Catalog number	FGNO / Order Number
3SB 1-R	0602R1001-33
3SB 1.25-R	0602R1251-33
3SB 1.6-R	0602R1601-33
3SB 2-R	0602R2001-33
3SB 2.5-R	0602R2501-33
3SB 3-R	0602R3001-33
3SB 4-R	0602R4001-33
3SB 5-R	0602R5001-33
3SB 6-R	0602R6001-33
3SB 7-R	0602R7001-33
3SB 8-R	0602R8001-33
3SB 10-R	0602R9101-33
3SB 12-R	0602R9121-33
3SB 15-R	0602R9151-33

Mechanical Dimensions



Ordering Information

06X2 R XXX1 - X X

FUSE TYPE _____
0602R = 3SB Series

R = RoHS Compliant _____

AMPERE RATING _____
Refer to fuse FGNO explanation table

PACKAGING CODE _____
3 = 3SB, Cartridge, 1K / Box

VOLTAGE CODE _____
2 = 125V, for 8.1A-15A
3 = 250V, for 63mA-8A

Packaging

Packaging Option	Packaging Specification	Quantity	Packaging Code	Inside Tape Spacing
Bulk	N/A	1000	33 / 32	N/A

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Bel:](#)

[3SB 7-R](#) [3SB 2-R](#) [3SB 3-R](#) [3SB 5-R](#) [3SB 250-R](#) [3SB 1.5-R](#) [3SB 100-R](#) [3SB 1-R](#) [3SBP 12-R](#) [3SB 375-R](#) [3SBP 8-R](#) [3SBP 15-R](#) [3SB 125-R](#) [3SBP 100-R](#) [3SBP 375-R](#) [3SBP 5-R](#) [3SBP 6-R](#) [3SB 200-R](#) [3SB 160-R](#) [3SB 500-R](#) [3SB 1.25-R](#) [3SB 15-R](#) [3SBP 1-R](#) [3SBP 4-R](#) [3SB 4-R](#) [3SBP 750-R](#) [3SBP 125-R](#) [3SBP 2-R](#) [3SB 10-R](#) [3SBP 160-R](#) [3SBP 250-R](#) [3SBP 2.5-R](#) [3SBP 300-R](#) [3SBP 500-R](#) [3SB 62-R](#) [3SBP 1.5-R](#) [3SBP 7-R](#) [3SB 80-R](#) [3SB 300-R](#) [3SB 1.6-R](#) [3SBP 80-R](#) [3SBP 1.6-R](#) [3SB 8-R](#) [3SB 750-R](#) [3SBP 200-R](#) [3SBP 3-R](#) [3SBP 1.25-R](#) [3SB 6-R](#) [3SB 12-R](#) [3SBP 62-R](#) [3SBP 10-R](#) [3SB 2.5-R](#)