

Type 0AABX

High DC Voltage Fuse Series

HF  0AABX Series

RoHS 2 Compliant

Description



The 0AABX fuse is designed for protection of high-voltage accessory circuits in electric and hybrid electric vehicles..

Features

- PCB mount, stud-mount, optional for other installation (SMD version available)
- 500Vdc ideal for EV or HEV application
- Excellent DC performance
- RoHS compliant
- Halogen Free
- Lead Free
- Design to ISO8820-8/JASO D622 standard



Applications

Provide individual protection for components or internal circuits.

LEAD FREE = 
 HALOGEN FREE = 




Physical Specifications

Materials	Body : Ceramic
	Cap : Tin Plated Copper Caps
	Terminals : Silver Plated Brass(For reflow solder and wave solder type), Tin Plated Brass(For stud Mount type)
Marking	On Fuse :
	"bel"
	"0AAB", "Current Rating", "Voltage Rating"
	On Label :
	"bel", "0AABX", "Current Rating", "Voltage Rating", "Interrupting Rating", "Appropriate Safety Logos" and "  ", "  "(China RoHS compliant).

Electrical Characteristics

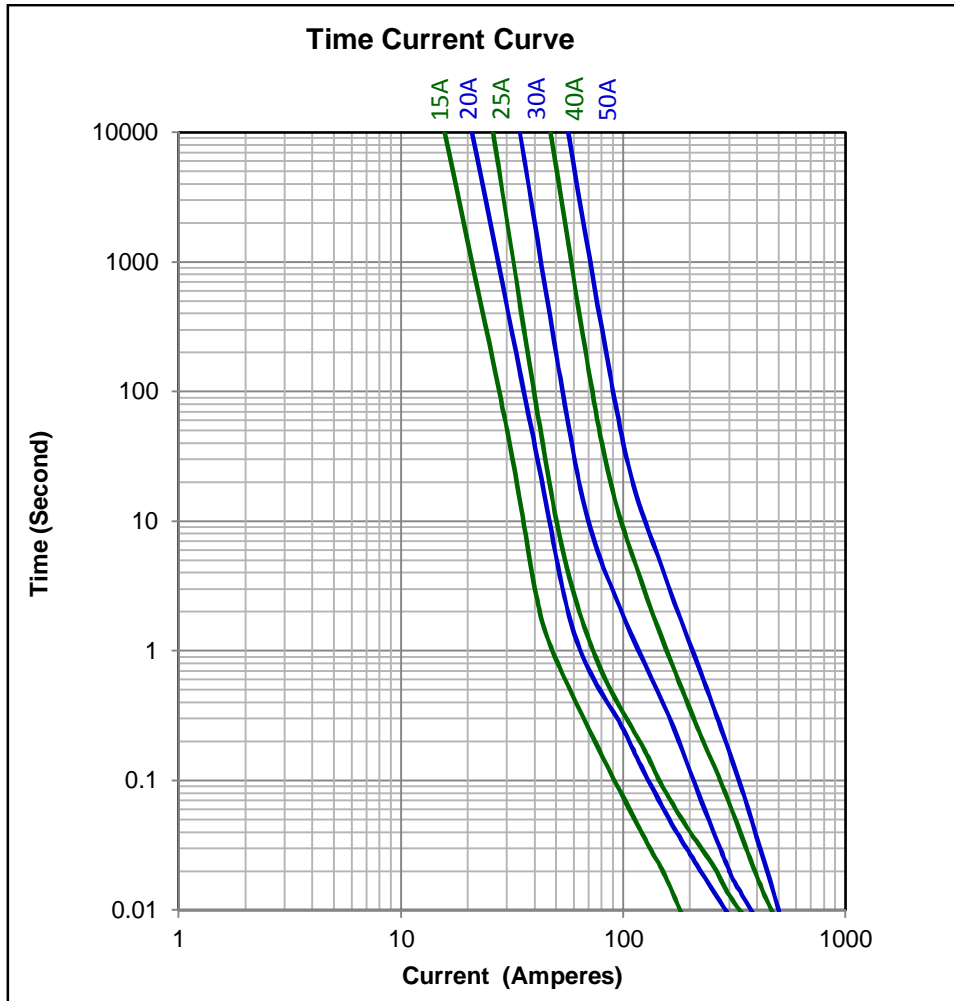
Testing Current	Blow Time	
	Minimum	Maximum
110%	4 Hrs.	N/A
200%	1 Sec	300 Sec
300%	0.2 Sec	30 Sec
500%	0.1 Sec	10 Sec

Safety Agency Approvals

Safety Agency	Voltage Rating (V)	Ampere Range / Volt @ I.R. ability*
	15A - 30A / 500V DC	15A - 30A / 500V @ 20kA DC
	40A-50A / 500V DC	40A-50A / 500V @ 20kA DC

*I.R.= Interrupting Rating = Short Circuit Rating(Amps)

Average Time Current Curve



Electrical Specifications

Part Number	Ampere Rating	Typical Cold Resistance (mohm)	Typical Voltage Drop at 70% In (mV)	Voltage and Interrupting Ratings	Maximum Voltage Drop Spec at 100% In (mV)	Typical Melting I ² t (A ² s)	Agency Approvals
0AABXC015-XX	15A	7.2	85	See Table of Ratings on Page 1 for Voltage and associated Interrupting Ratings	200	350	Y
0AABXC020-XX	20A	5.1	86		200	1000	Y
0AABXC025-XX	25A	4.2	88		200	1350	Y
0AABXC030-XX	30A	3.0	93		200	1400	Y
0AABXC040-XX	40A	2.38	95		200	2800	
0AABXC050-XX	50A	1.5	90		200	2500	

Consult manufacturer for other ratings



Specifications subject to change without notice

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

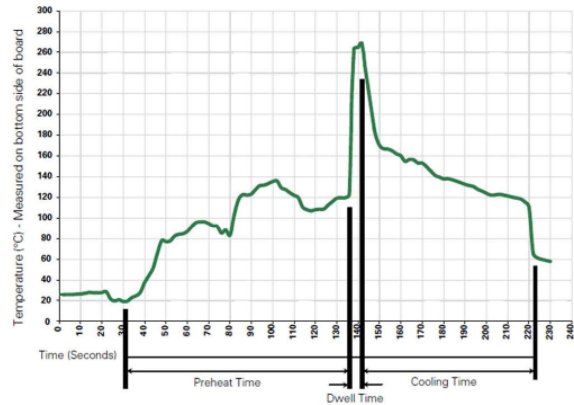
+1 201.432.0463
Bel.US.CS@belf.com
belfuse.com/circuit-protection

Soldering Parameters

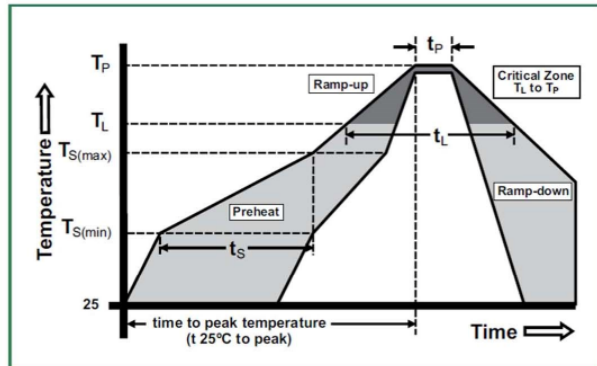
Recommended Process Parameters:

Wave Parameter	Lead-Free Recommendation
Preheat: (Depends on Flux Activation Temperature)	(Typical Industry Recommendation)
Temperature Minimum:	100° C
Temperature Maximum:	150° C
Preheat Time	60-180 seconds
Solder Pot Temperature:	270° C
Solder Dwell Time:	10 seconds Maximum

Recommended Hand-Solder Parameters:
 Solder Iron Temperature: 350° C +/- 5° C
 Heating Time: 5 seconds max.



Reflow Condition		Pb - free assembly
Pre Heat	-Temperature Min ($T_{s(min)}$)	150°C
	-Temperature Max ($T_{s(max)}$)	200°C
	-Time (Min to Max) (t_s)	60 - 120 seconds
Average Ramp-up Rate (Liquidus Temp (T_L) to peak)		5°C/second max.
$T_{s(max)}$ to T_L - Ramp-up Rate		5°C/second max.
Reflow	-Temperature (T_L) (Liquidus)	217°C
	-Temperature (t_l)	60 - 90 seconds
Peak Temperature (T_p)		250 ^{+0/-5} °C
Time within 5°C of actual peak Temperature (t_p)		20 - 40 seconds
Ramp-down Rate		5°C/second max.
Time 25°C to peak Temperature (T_p)		8 minutes max.



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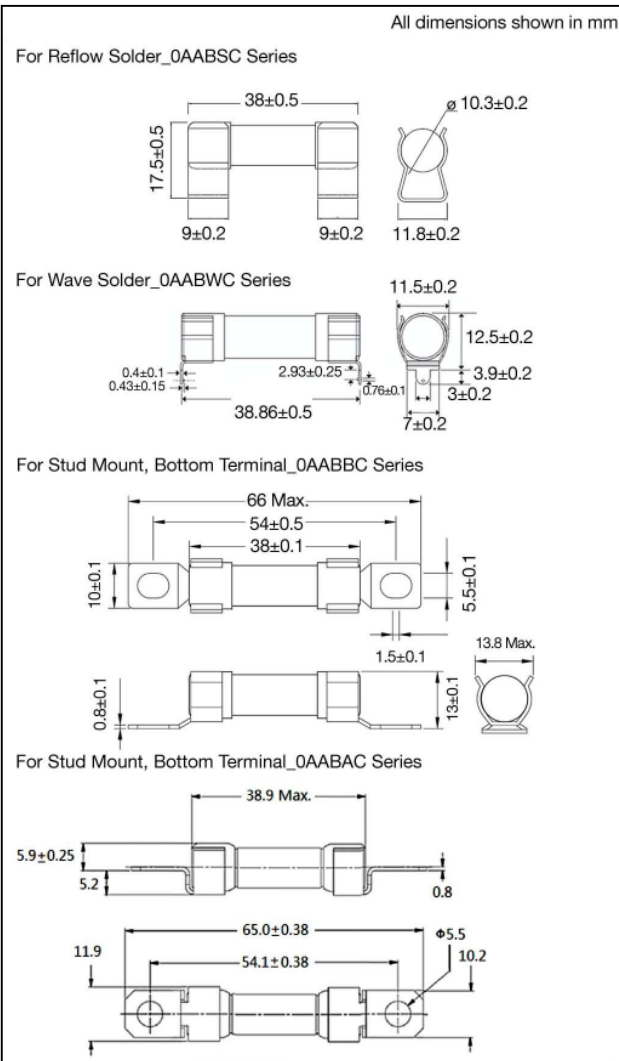
Fuse FGNO Explanation

0AAB X C[XXX] - XX

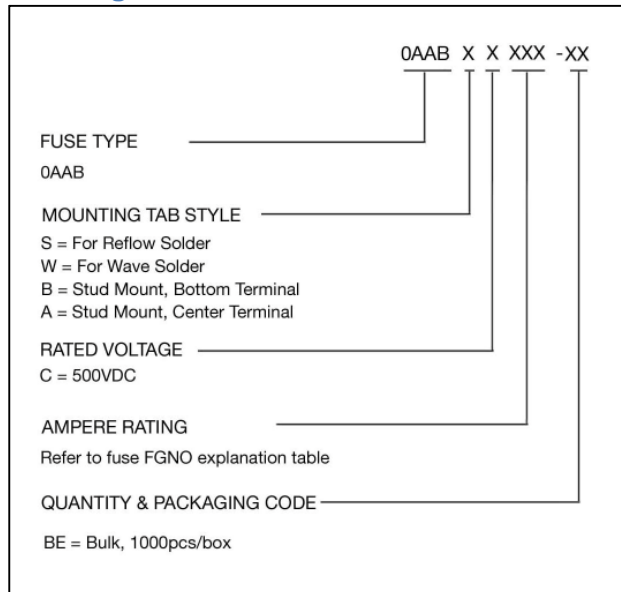
[XXX]=Ampere Rating; XX=See Ordering Information as below

Amps	Bel FGNO[XXX]
15	015
20	020
25	025
30	030
40	040
50	050

Mechanical Dimensions



Ordering Information



Packaging

Packaging Option	Quantity	Packaging Code
Bulk	1000	BE



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