

Type 0ALD

Electric vehicle auxiliary fuses

0ALD 800/750Vdc

RoHS Compliant

Features

- DC fuse for EV/HEV/ESS
- Stud-mount, optional for other installation
- Excellent DC performance
- Design to EV fuse standard UL248-20
- Reliability performance design refer to ISO8820-8&GB/T31465.6
- Fully compliance with EU Directive 2011/65/EU and amending directive 2015/863

Physical Specifications



UK
CA CE

Materials	Body : Ceramic
	Terminals : Stud Mount, Bottom Terminal (Tin Plated Copper); Wave solder, 2-pin PCB mount (Tin Plated Copper); Wave solder, 1-pin PCB mount (Silver Plated Brass).
Marking	On Fuse :
	"bel", "0ALD", "Voltage Rating", "Current Rating"
	On Label :
	"bel", "0ALDX", "Current Rating", "Voltage Rating", "Interrupting Rating", and "  ", "  "(China RoHS compliant).

Ratings

Ampere Rating / Voltage Rating	Ampere Range / Volt @ I.R. ability*
5A-40A / 800V DC 50A / 750V DC	5A-40A / 800V @ 50KA DC 50A / 750V @50KA DC
*I.R.=DC Interrupting Rating	

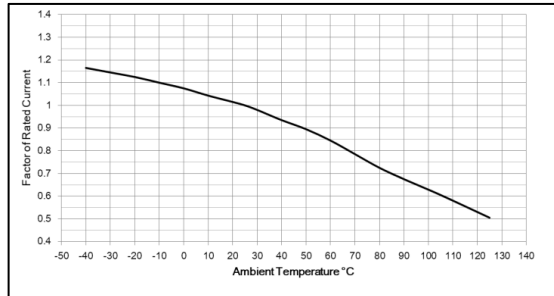
Electrical Characteristics

% of Ampere Rating (A)	Operating Time (Unit: sec)	
	Min.	Max.
200%	0.5	100
300%	0.1	15
500%	0.05	1

Temperature Re-Rating Curve

Normal Operating Temperature: $25^{\circ}\text{C} \pm 2^{\circ}\text{C}$
 Operating Temperature: -40°C to 125°C with proper correction factor applied.

Chart of correction factor



Storage Temperature: -40°C to 125°C

Soldering Parameter for Through hole series:

-Wave soldering: Solder Pot Temperature: 260°C Max.

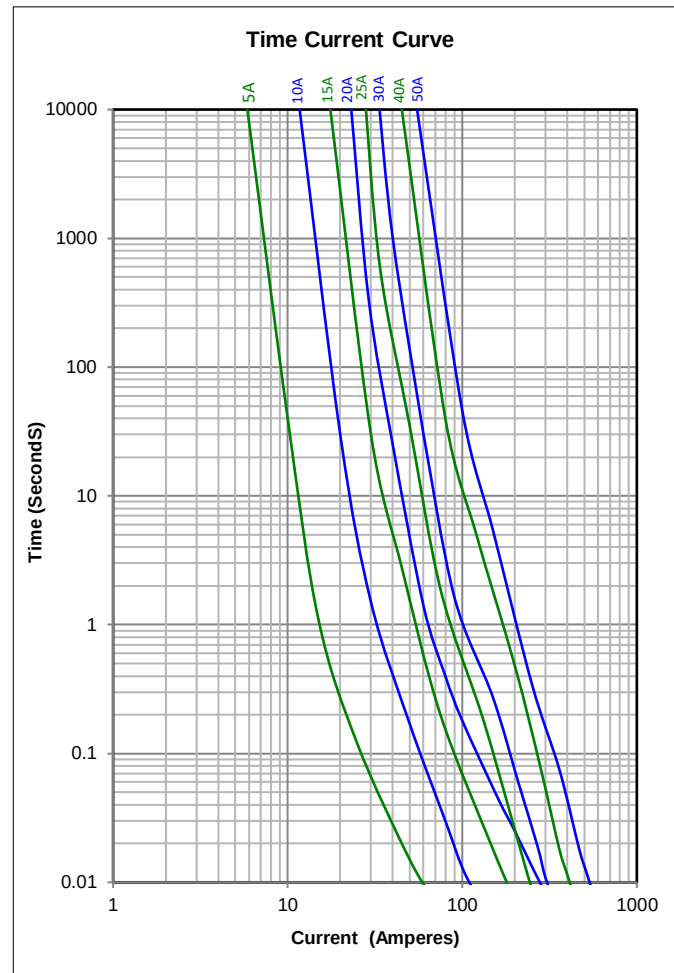
Solder Dwell Time: 10s Max.

-Hand-Soldering (not recommended):

Solder Iron Temperature: $350^{\circ}\text{C} \pm 5^{\circ}\text{C}$

Heating Time: 5s Max.

Average Time Current Curve



Electrical Specifications

Part Number	Ampere Rating	Voltage and Interrupting Ratings	Typical cold resistance (mOhms)	Typical voltage drop (mV)	Typical pre-arcing I^2t (A ² sec)
0ALDx5000-xx	5A	See Table of Ratings above for Voltage and associated Interrupting Ratings	31	190	35
0ALDx9100-xx	10A		12.5	130	120
0ALDx9150-xx	15A		7.2	140	405
0ALDx9200-xx	20A		5.2	154	1000
0ALDx9250-xx	25A		4.0	145	560
0ALDx9300-xx	30A		3.1	150	880
0ALDx9400-xx	40A		2.2	148	1760
0ALDx9500-xx	50A		1.6	155	3250

Consult manufacturer for other ratings

* Temperature Rise : $\leq 50\text{K}$ with 70% of rated current

* DC Cold Resistance are measured at $<10\%$ of rated current in ambient temperature of 25°C

*Typical Pre-arcing I^2t are measured at 10In Current.

Fuse FGNO Explanation

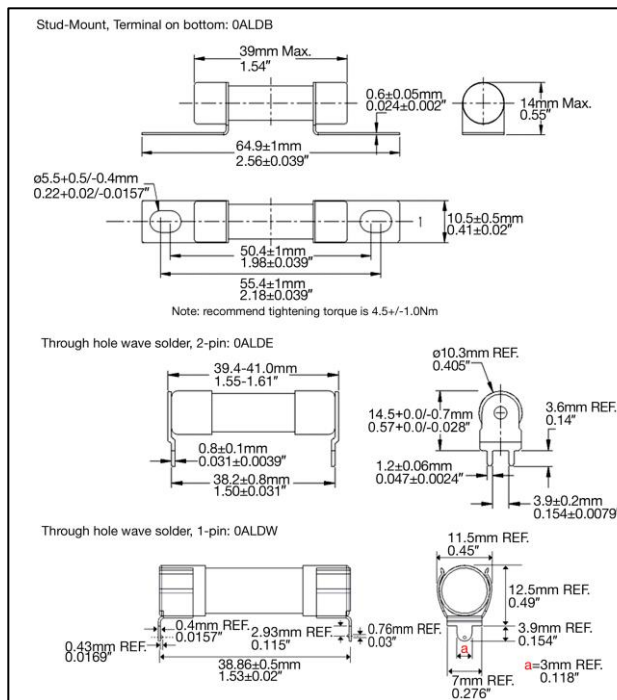
0ALD X [XXXX] -XX

0ALDB=0ALDB; 0ALDE=0ALDE; 0ALDW=0ALDW

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

Decimal	Amps	Bel FGNO[XXXX]
5	5	5000
10	10	9100
15	15	9150
20	20	9200
25	25	9250
30	30	9300
40	40	9400
50	50	9500

Mechanical Dimensions



Ordering Information

0ALD X XXXX - XX

FUSE TYPE _____
0ALD

Mounting Tab Style _____
B=For Stud-Mount, Terminal on bottom
E=For Through hole wave solder, 2-pin
W=For Through hole wave solder, 1-pin

AMPERE RATING _____
Refer to fuse FGNO explanation table

PACKING / QUANTITY CODE _____
PD (for 0ALDB, Stand Mount)
P = Plastic tray pack
D = 40pcs/tray, 400pcs/carton box

BE (for 0ALDE and 0ALDW, Through hole wave solder)
B = Bulk pack
E = 20pcs/inner box, 640pcs / carton box (for 0ALDE)
E = 20pcs/inner box, 540pcs / carton box (for 0ALDW)

Packaging

Packaging Option	Quantity	Packaging Code
Plastic tray pack (for 0ALDB)	40pcs / plastic tray, 400pcs (10 plastic tray) / carton box	PD
Bulk pack (for 0ALDE)	20pcs/inner box, 640pcs (32 inner boxes) / carton box	BE
Bulk pack (for 0ALDW)	20pcs/inner box, 540pcs (27 inner boxes) / carton box	BE

Mouser Electronics

Authorized Distributor

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

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[0ALDB5000-PD](#) [0ALDB9100-PD](#) [0ALDB9150-PD](#) [0ALDB9200-PD](#) [0ALDB9250-PD](#) [0ALDB9300-PD](#) [0ALDB9400-PD](#) [0ALDB9500-PD](#) [0ALDE5000-BE](#) [0ALDE9100-BE](#) [0ALDE9150-BE](#) [0ALDE9200-BE](#) [0ALDE9250-BE](#) [0ALDE9300-BE](#) [0ALDE9400-BE](#) [0ALDE9500-BE](#) [0ALDW5000-BE](#) [0ALDW9100-BE](#) [0ALDW9150-BE](#) [0ALDW9200-BE](#) [0ALDW9250-BE](#) [0ALDW9300-BE](#) [0ALDW9400-BE](#) [0ALDW9500-BE](#)