

# Type 0ACH

## Fast Acting High Current Brick Fuse

HF 0ACH Series

RoHS Compliant



**AEC-Q Compliant**

### Features

- Fast acting high current brick fuse
- Surface mount design to save space, 4.5x4.5x12.3mm physical size
- Ceramic square body with end cap design
- Wide operating temperature range, -40°C to 125°C
- Tape & Reel for auto-insert SMD process
- MSL=1
- Designed to UL248-1, 248-14
- RoHS compliant with exemption 7(a)  
Fully compliance with EU Directive 2011/65/EU and amending directive 2015/863
- AEC-Q Compliant
- Meets Bel automotive qualification\*
- \* - Largely based on internal AEC-Q test plan

### Applications

- High-Power Battery Systems
- Routers
- Blade Servers
- Surface mount design to save space

HALOGEN FREE = HF

### Physical Specifications

Materials	Body : Ceramic Cap : Silver plated copper
Marking	On Fuse : "Current Rating" On Label : "bel", "0ACH", "Current Rating", "Voltage Rating", "Interrupting Rating", and "  ", "  " (China RoHS compliant).

### Electrical Characteristics

% of Ampere Rating (A)	Operating Time	
	Min	Max
100%	4hours	-
350%	-	10sec

### Safety Agency Approvals

Safety Agency	Ampere Rating / Voltage Rating	Ampere Range / Volt @ I.R. ability**
	60A/80V DC* 60-100A/72V DC /63V DC /32V DC /125V AC	60A/80V @ 1000A DC 60-100A/72V @ 1000A DC /63V @ 1000A DC /32V @ 1000A DC /125V @ 500A AC

\*Internal qualification for 60A @ 80Vdc  
\*\*AC Interrupting Rating (Measured at designated voltage, 100% power factor random closing)  
DC Interrupting Rating (Measured at designated voltage, time constant of less than 50 microseconds,battery source)



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Specifications subject to change without notice

[belfuse.com/circuit-protection](http://belfuse.com/circuit-protection)

### Electrical Specifications

Part Number	Ampere Rating	Voltage and Interrupting Ratings	Typical Cold. Resistance (mohms)	Typical Voltage Drop (mV)	Typical Pre-Arcing $I^2t$ (A <sup>2</sup> Sec)*
0ACH-9600-XX	60A	See Table of Ratings on Page 1 for Voltage and associated Interrupting Ratings	0.60	75	900
0ACH-9800-XX	80A		0.44	65	1700
0ACH-K100-XX	100A		0.29	55	5000

Consult manufacturer for other ratings

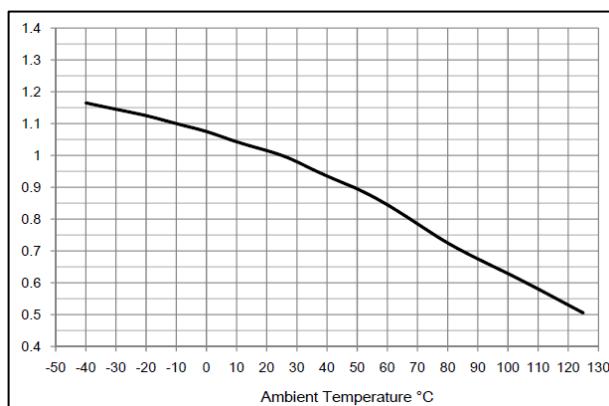
\* Typical Pre-arcng  $I^2t$  are measured at 10In Current, DC battery bank, but not exceeding the interrupting rating, time constant of calibrated circuit less than 50 microseconds)

### Temperature Re-Rating Curve

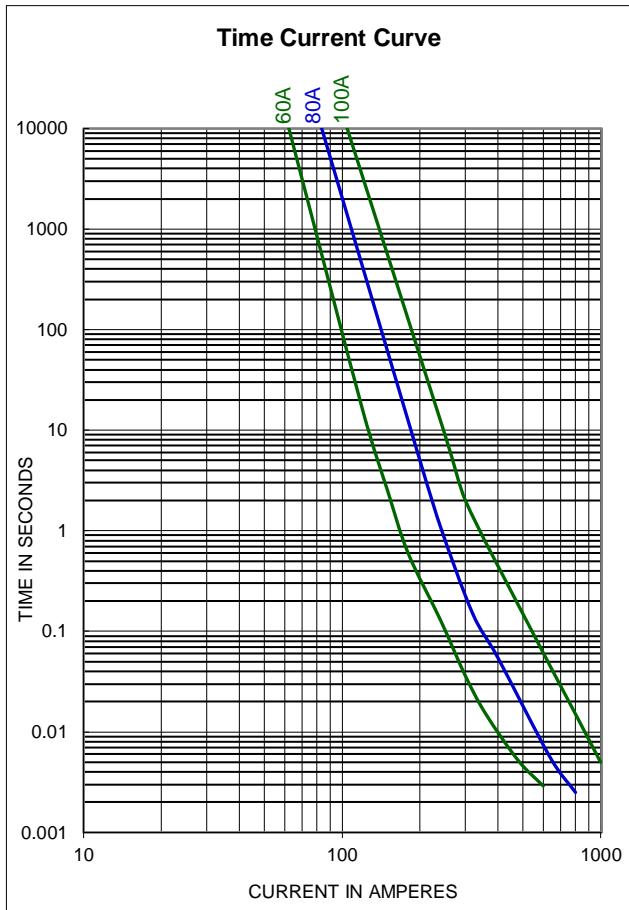
Normal Operating Temperature:  $25^{\circ}\text{C} \pm 2^{\circ}\text{C}$

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

Chart of correction factor



### Average Time Current Curve



### Soldering Characteristics

#### Reflow Soldering

- Temperature:  $260^{\circ}\text{C}$
- Time: 30 Seconds Maximum

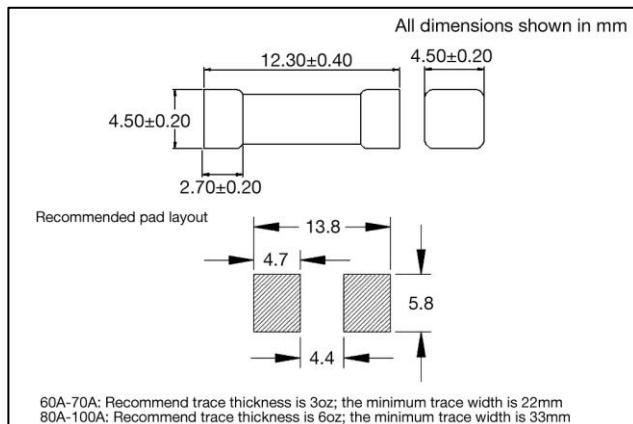
## Fuse FGNO Explanation

0ACH - [XXXX] -XX

0ACH=0ACH; [XXXX]=Ampere Rating; XX=See Ordering Information as below

Decimal	Amps	Bel FGNO[XXXX]
60	60	9600
80	80	9800
100	100	K100

## Mechanical Dimensions



## Ordering Information

FUSE TYPE	0ACH	- XXXX	- XX
0ACH = 0ACH			
AMPERE RATING	Refer to fuse FGNO explanation table		
QUANTITY & PACKAGING CODE			
TE = 1000pcs fuses in tape (width 24mm) and reel (dia. 13inch)			

## Packaging

Packaging Option	Quantity	Packaging Code
Tape (width 24mm) and reel (dia. 13inch)	1000	TE

# Mouser Electronics

Authorized Distributor

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

Bel:

[0ACH-9600-TE](#) [0ACH-9800-TE](#) [0ACH-K100-TE](#)