

Type 0ACA

Power Battery Packs Protection Series

HF  0ACA Series

RoHS Compliant

Features

- Surface mount design to save space, 2410 SMD
- Ceramic square body with Silver plated end cap
- Compatible with 260°C, IR Pb-free solder process
- Wide operating temperature range, -55°C to 125°C
- Tape & Reel for auto-insert SMD process
- Designed to UL248-1
- Fully compliance with EU Directive 2011/65/EU and amending directive 2015/863
- Fully compatible with lead-free solder and high temperature profile associated with lead-free assembly
- pass internal reliability performance and applicable for low duty application (bicycle etc.)

HALOGEN FREE = 
LEAD FREE = 

Applications

- E-Bike
- E-Robot sweeper
- E-Motor
- Power Tools



Physical Specifications

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

Electrical Characteristics

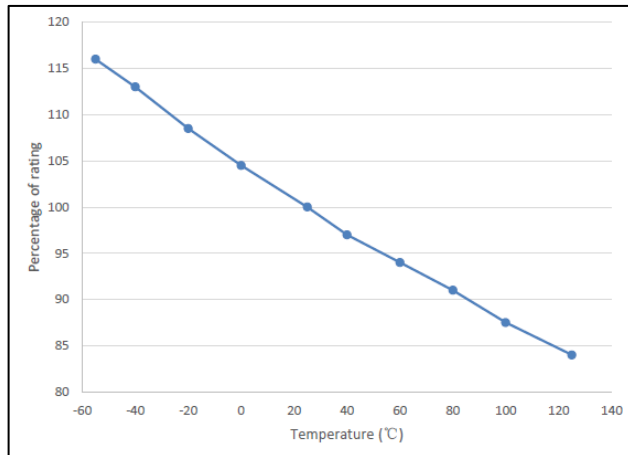
% of Ampere Rating (A)	Operating Time	
	Min	Max
100%	4hours	-
200%	-	60sec

Safety Agency Approvals

Safety Agency	Ampere Rating / Voltage Rating	Ampere Range / Volt @ I.R. ability*
	20-30A / 72V DC 40A / 63V DC	20-30A / 72V @ 500A DC 40A / 63V @ 500A DC
*I.R.=DC Interrupting Rating		

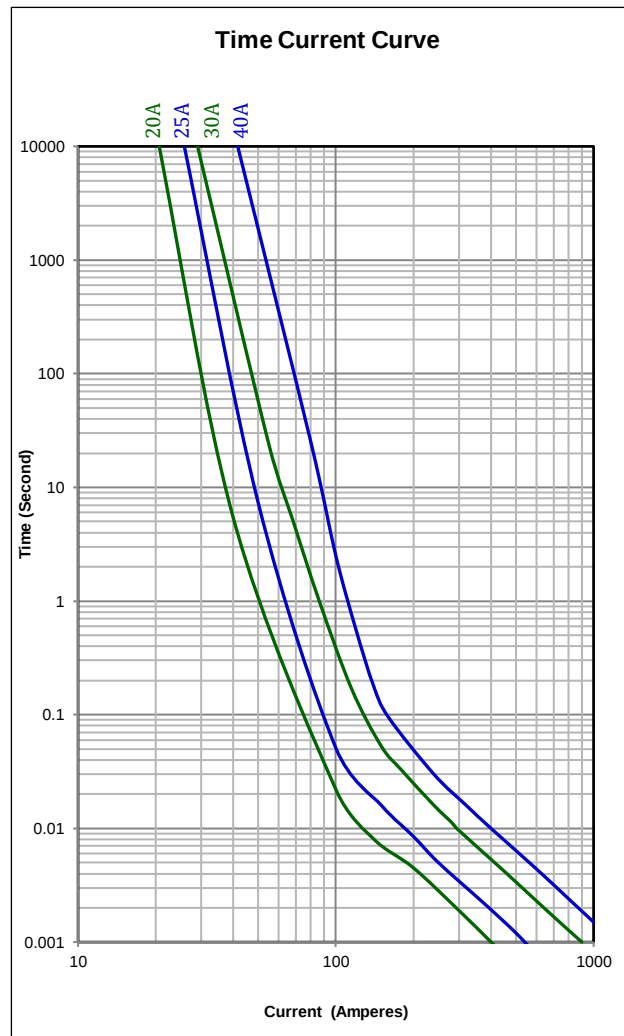
Temperature Re-Rating Curve

Normal Operating Temperature: $25^{\circ}\text{C} \pm 2^{\circ}\text{C}$
 Operating Temperature: -55°C to 125°C with proper correction factor applied.
 Chart of correction factor



Storage Temperature: -55°C to 125°C

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 ² t (A ² Sec)**
0ACA-9200-XX	20A	See Table of Ratings on Page 1 for Voltage and associated Interrupting Ratings	2.3	60	210
0ACA-9250-XX	25A		1.7	55	400
0ACA-9300-XX	30A		1.2	50	900
0ACA-9400-XX	40A		0.9	50	1600

Consult manufacturer for other ratings

**Typical Pre-arcing I²t are measured at 10In Current.

Soldering Characteristics

Wave Immersion

- Reservoir Temperature: 260° C
- Time in Reservoir : 10 Seconds Maximum

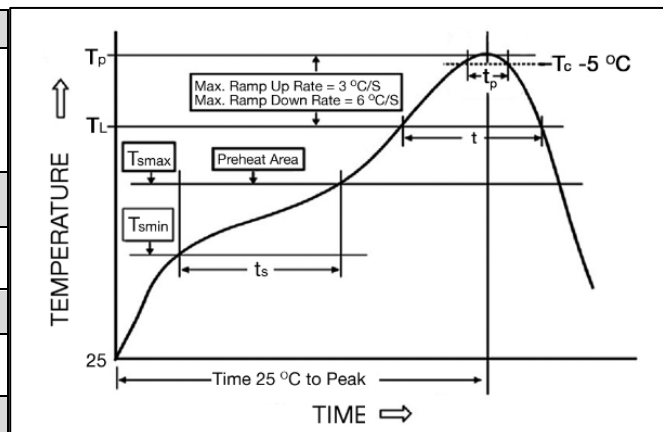
Infrared Reflow

- Temperature: 260° C
- Time: 30 Seconds Maximum

Hand Soldering (not recommended)

- Maximum tip temperature: 350°C
- Maximum soldering time: 5 seconds max

Profile Feature	
Preheat & Soak	
Temperature min (T _{min})	150°C
Temperature max (T _{max})	200°C
Time (T _{min} to T _{max}) (t _s)	60-120 seconds
Average ramp-up rate (T _{max} to T _p)	3°C/second max.
Liquidous temperature (T _L)	217°C
Time at liquidous (t _L)	60-150 seconds
Peak package body temperature (T _p)	260°C
Time (t _p) within 5°C of the specified classification temperature (T _c)	30 seconds
Average ramp-down rate (T _p to T _{max})	6°C/second max.
Time 25°C to peak temperature	8 minutes max.



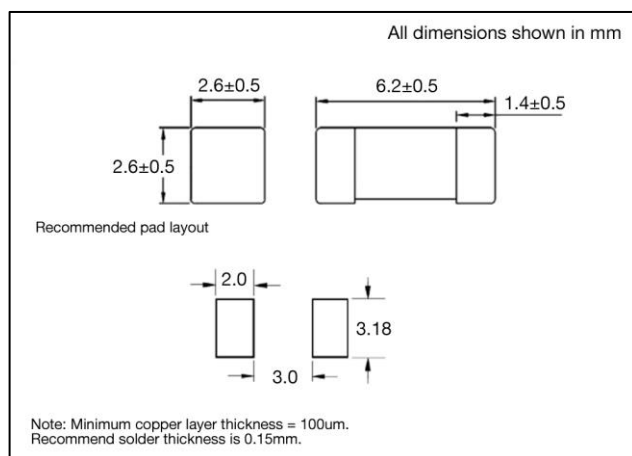
Fuse FGNO Explanation

0ACA - [XXXX] -XX

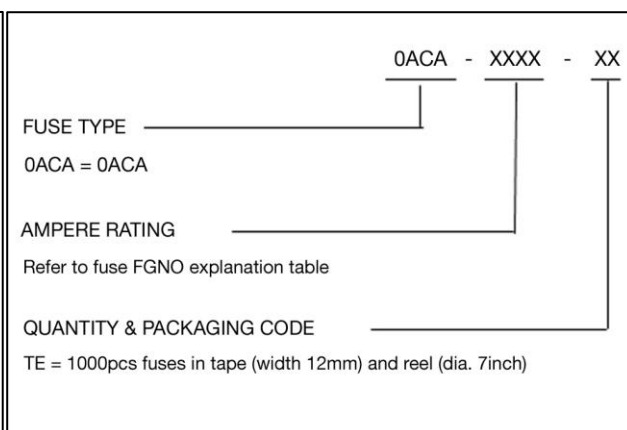
0ACA=0ACA; [XXXX]=Ampere Rating; XX=See Ordering Information as below

Decimal	Amps	Bel FGNO[XXXX]
20	20	9200
25	25	9250
30	30	9300
40	40	9400

Mechanical Dimensions



Ordering Information



Packaging

Packaging Option	Quantity	Packaging Code
Tape (width 12mm) and reel (dia. 7inch)	1000	TE

Mouser Electronics

Authorized Distributor

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

Bel:

[0ACA-9200-TE](#) [0ACA-9250-TE](#) [0ACA-9300-TE](#) [0ACA-9400-TE](#)