Type 0ACA

Power Battery Packs Protection Series

0ACA Series — RoHS Compliant

Features

- Surface mount design to save space, 2410 SMD
- Ceramic square body with Silver plated end cap
- Compatible with 260℃, IR Pb-free solder process
- Wide operating temperature range, -55℃ to 125℃
- Tape & Reel for auto-insert SMD process
- Designed to UL248-1
- Full compliance with EU Directive 2011/65/EU and amending directive 2015/863
- Full 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 = HF
LEAD FREE = Pb



Applications

- E-Bike
- E-Motor
- e Robot sweeper
- 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", "Appropriate Safety Logos" and " ", " "(China RoHS compliant).

Electrical Characteristics

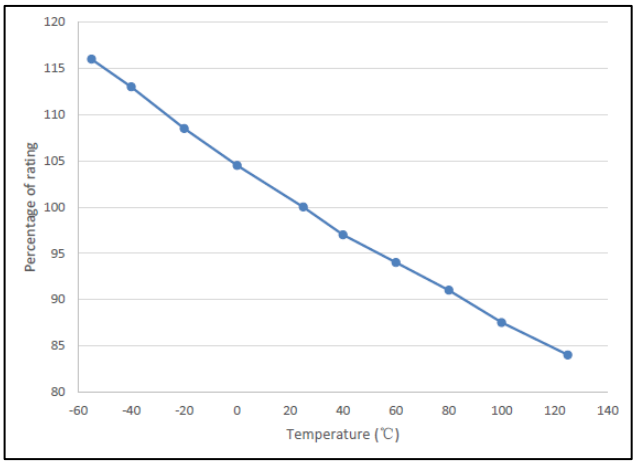
% of Ampere Rating (A)	Operating Time	
	Min	Max
100%	4hours	-
200%	-	60sec

Safety Agency Approvals

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

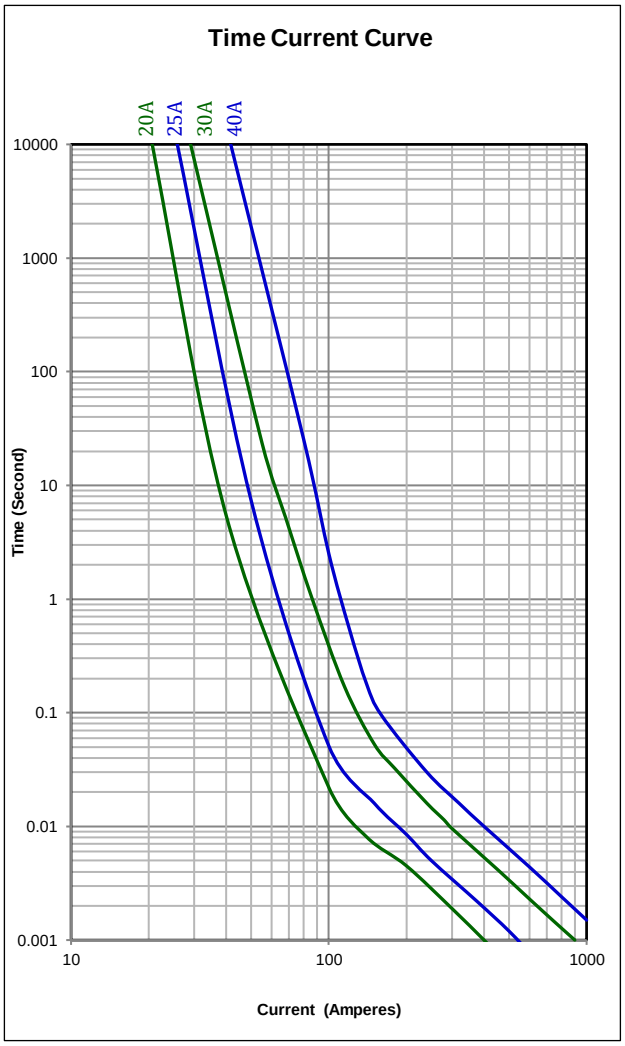
Temperature Re-Rating Curve

Normal Operating Temperature: 25℃ ± 2℃
Operating Temperature: -55℃ to 125℃ with proper correction factor applied.
Chart of correction factor



Storage Temperature: -55℃ to 125℃

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 I²t (A²Sec)**
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.

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

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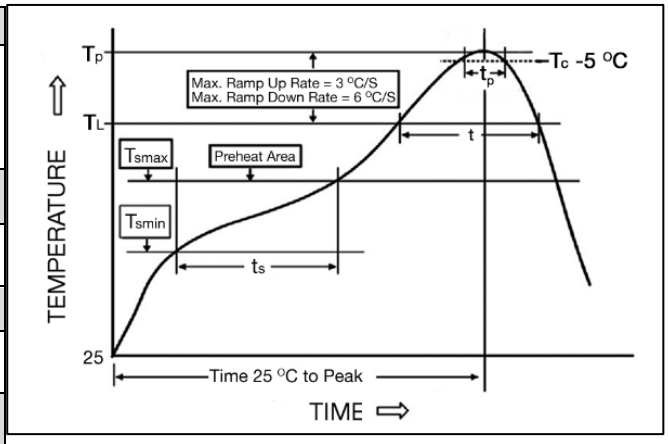
Soldering Characteristics

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 (Tsmin) Temperature max (Tsmax) Time (Tsmin to Tsmax) (ts)	150℃ 200℃ 60-120 seconds
Average ramp-up rate (Tsmax to Tp)	3℃/second max.
Liquidous temperature (TL) Time at liquidous (tL)	217℃ 60-150 seconds
Peak package body temperature (Tp)	260℃
Time (tp) within 5℃ of the specified classification temperature (Tc)	30 seconds
Average ramp-down rate (Tp to Tsmax)	6℃/second max.
Time 25℃ to peak temperature	8 minutes max.



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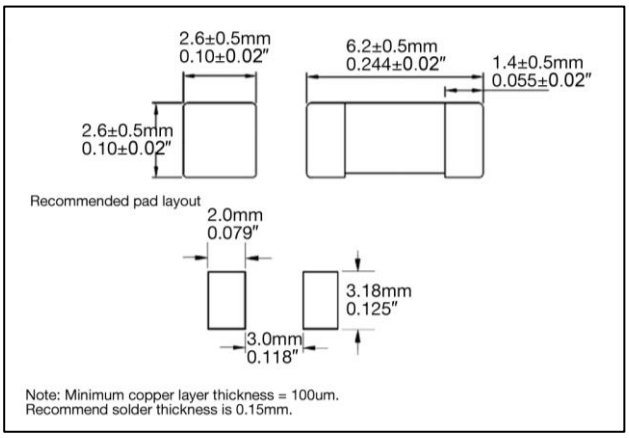
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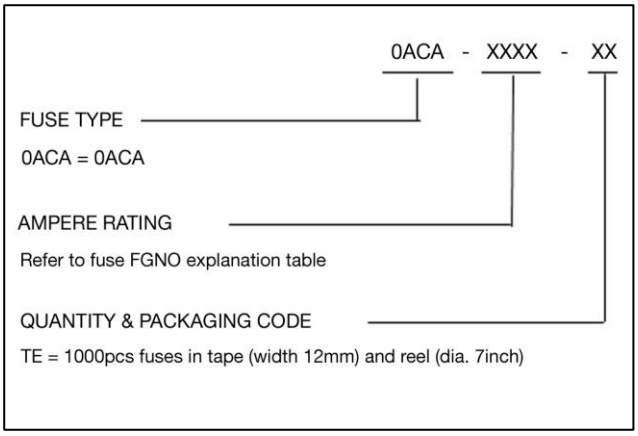
Fuse FGNO Explanation
0ACA - [XXXX] -XX
0ACA=0ACA; [XXXX]=Ampere Rating; XX=See Ordering Information as below

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

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