

Type 0ACA Power Battery Packs Protection 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
- 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 = LEAD FREE =





- E-Bike

- e Robot sweeper

- E-Motor

- Power Tools



Physical Specifications

Materials	Body : Ceramic
	Cap : Silver plated copper
	On Fuse :
Marking	"Current Rating"
	On Label :
	"bel", "0ACA", "Current Rating", "Voltage Rating", "Interrupting Rating", "Appropriate Safety Logos" and " , "

Electrical Characteristics

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

Safety Agency Approvals

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



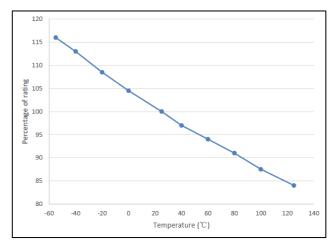
Type 0ACA

Temperature Re-Rating Curve

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

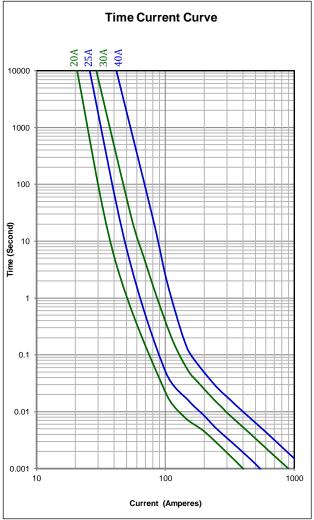
factor applied.

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		2.3	60	210
0ACA-9250-XX	25A	See Table of Ratings on Page 1 for Voltage and	1.7	55	400
0ACA-9300-XX	30A	associated Interrupting Ratings	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.

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Soldering Characteristics

Wave Immersion

• Reservoir Temperature: 260° C

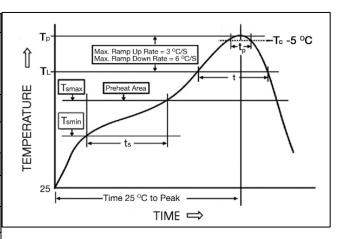
• Time in Reservoir: 10 Seconds Maximum

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





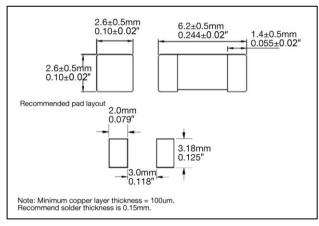
Type 0ACA

Fuse FGNO Explanation 0ACA - [XXXX] -XX

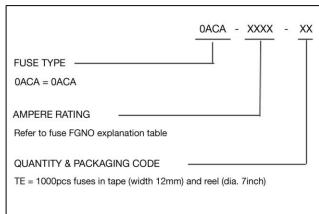
0ACA=0ACA; [XXXX]=Ampere Rating; XX=See Ordering Information as below

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

