



RoHS Compliant



- Surface mount design to save space
- Ceramic tube, silver plated cap construction
- Compatible with 260 °C, IR Pb-free solder process
- Wide operating temperature range, -40°C to 125°C
- Tape & Reel for auto-insert SMD process
- MSL = 1
- Complies with IEC 60127-7 standard
- RoHS compliant with exemption 7(a)
 Full 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

- Battery Management Systems, (BMS)
- Li-ion Battery Packs
- DC-DC Converters

HALOGEN FREE = HF



AEC-Q Compliant

Physical Specifications

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

Electrical Characteristics

% of Ampere	Operating Time		
Rating (A)	Min	Max	
125%	1 hour	-	
200%	-	120 sec	
1000%		1 sec	

Safety Agency Approvals

Safety Agency	Ampere Rating / Voltage Rating	Ampere Range / Volt @ I.R. ability**
c '91 2 us	1-3.15A/500V DC /350V DC /350V AC 4-5A/450V DC /125V DC /350V AC	1-3.15A/500V @ 100A DC /350V @ 1500A DC /350V @ 100A AC 4-5A/450V @ 100A DC /125V @ 1500A DC /350V @ 100A AC

** AC Interrupting Rating (measured at designated voltage, 100% power factor); DC Interrupting Rating (measured at designated voltage, time constant of less than 50 microseconds, battery source)



Specifications subject to change without notice

Type 0ACG

Electrical Specifications

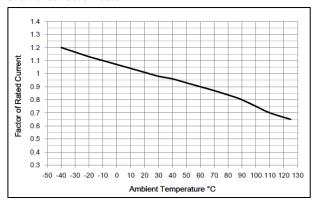
Part Number	Ampere Rating	Alpha Mark	Voltage and Interrupting Ratings	Typical Cold. Resistance (mohms)**	Typical Voltage Drop (mV)	Typical Pre-Arcing I ² t (A ² Sec)***
0ACG-1000-XX	1A	1		220	220	0.50
0ACG-1250-XX	1.25A	1.25		140	210	0.95
0ACG-1600-XX	1.6A	1.6		90	190	2.3
0ACG-2000-XX	2A	2	See Table of Ratings on Page 1 for Voltage and associated Interrupting Ratings	70	185	4.1
0ACG-2500-XX	2.5A	2.5		40	120	2.6
0ACG-3150-XX	3.15A	3.15		31.5	140	3.3
0ACG-4000-XX	4A	4		24.5	140	5.5
0ACG-5000-XX	5A	5		17.5	130	11.5

Consult manufacturer for other ratings

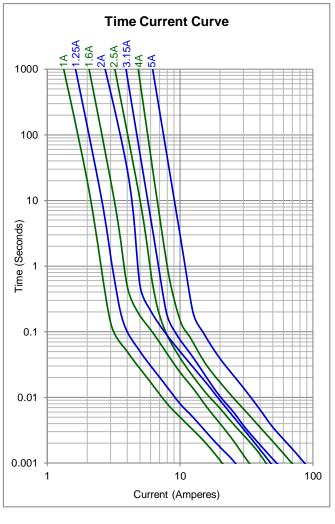
Temperature derating curve

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



Time Current Curve





Specifications subject to change without notice

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

^{**} DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25 $^{\circ}\mathrm{C}$

^{***} Typical Pre-arcing I2t are measured at 10In Current, DC battery bank.

Type 0ACG

Soldering Characteristics

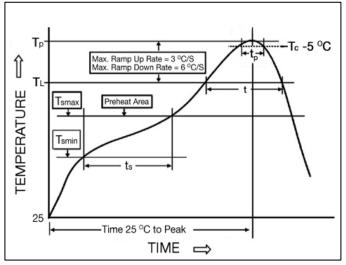
Reflow Soldering

• Temperature: 260° C

• Time: 30 Seconds Maximum Manual Soldering (not recommended)

Temperature: 350° CTime: 5 Seconds Maximum

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





Specifications subject to change without notice

Type 0ACG

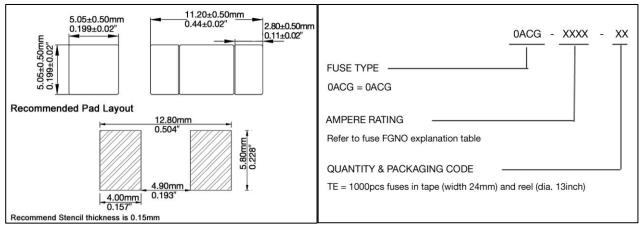
Fuse FGNO Explanation 0ACG - [XXXX] -XX

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

Fraction	Decimal	Amps	Bel FGNO[XXXX]	
	1.0	1	1000	
1-1/4	1.25	1.25	1250	
	1.6	1.6	1600	
	2.0	2	2000	
2-1/2	2.5	2.5	2500	
	3.15	3.15	3150	
	4.0	4	4000	
	5.0	5	5000	

Mechanical Dimensions

Ordering Information



Packaging

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



Specifications subject to change without notice