

OACF Series RoHS Compliant

# Description

5x5x32mm physical size

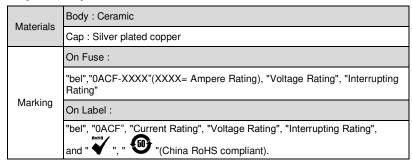
### **Features**

- -1500VDC maximum, High voltage and High Breaking Capacity
- 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

## **Physical Specifications**





AEC-Q Compliant

### **Electrical Characteristics**

% of Ampere	Operating Time	
Rating (A)	Min	Max
100%	4hours	-
250%	-	120sec

#### Ratings

Ampere Rating / Voltage Rating	Ampere Range / Volt @ I.R. ability*	
800mA / 1500V DC **	800mA/ 1500V @ 10kA DC	
800mA-3A / 1000V DC	800mA-3A / 1000V @ 10kA DC	

\*I.R.=DC Interrupting Rating (measured at designated voltage, time constant of less than 50 microseconds)

\*\* 800mA Self-certified for 1500Vdc/10kA I.R

### **Electrical Specifications**

Part Number	Ampere Rating	Voltage and Interrupting Ratings	Typical Cold. Resistance (mohms)	Typical Voltage Drop (mV)	Typical Pre-Arcing I <sup>2</sup> t (A <sup>2</sup> S)
0ACF-0800-XX	800mA	See Table of Ratings on Page 1 for Voltage and associated Interrupting Ratings	560	500	0.65
0ACF-1000-XX	1A		435	480	1.30
0ACF-2000-XX	2A		140	415	1.5
0ACF-2500-XX	2.5A		106	385	2.5
0ACF-3000-XX	3A		90	390	4.0

Consult manufacturer for other ratings

Typical Pre-arcing  $I^2t$  are measured at 10In Current, DC battery bank.

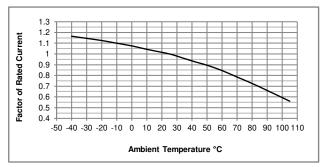


Specifications subject to change without notice

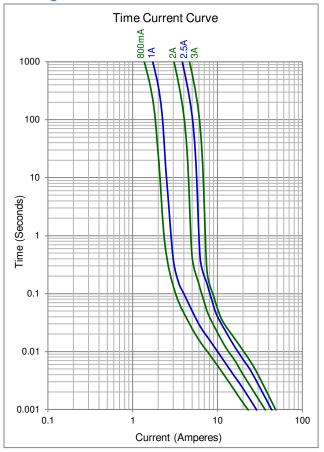
Type 0ACF

# **Temperature Re-Rating Curve**

Normal Operating Temperature: 25 ℃



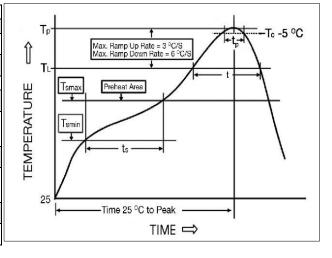
# **Average Time Current Curve**



# **Soldering Characteristics**

# **Reflow Soldering Condition:**

Profile Feature	Lead(Pb) free solder	
Preheat and soak		
Temperature min.(T <sub>smin</sub> )	150℃	
Temperature max. (T <sub>smax</sub> )	200℃	
Time (T <sub>smin</sub> to T <sub>smax</sub> ) (t <sub>S</sub> )	60 - 120 Seconds	
Average ramp up rate T <sub>smax</sub> to T <sub>p</sub>	3°C / Second Max.	
Liquidous temperature (T <sub>L</sub> )	217℃	
Time at liquidous (t <sub>L</sub> )	60 - 90 Seconds	
Peak package body temperature (T <sub>P</sub> )	260 <sup>+0/-5</sup> °C	
Time (t <sub>P</sub> ) within 5°C of the specified	20-40 Seconds	
classification temperature (T <sub>C</sub> )	20 10 00001100	
Average ramp-down rate (T <sub>P</sub> to T <sub>smax</sub> )	6°C / Second Max.	
Time (25°C to Peak Temperature)	8 Minutes Max.	



## **Manual Soldering:**

- Temperature: 350° C
- Time: 5 Seconds Maximum



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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 Type 0ACF

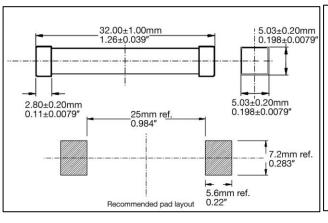
Fuse FGNO Explanation 0ACF - [XXXX] -XX

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

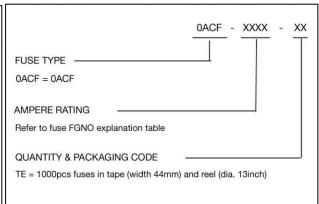
Fraction	Decimal	Milliamps	Bel FGNO[XXXX]
8/10	0.800	800	0800

Decimal	Amps	Bel FGNO[XXXX]
1.0	1	1000
2.0	2	2000
2.5	2.5	2500
3.0	3	3000

### **Mechanical Dimensions**



# **Ordering Information**



# **Packaging**

Packaging Option	Quantity	Packaging Code	
Tape (width 44mm) and reel (dia. 13inch)	1000	TE	



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Rev. 0ACF Apr2023