## Type 0ACF High Voltage SMD Fuse

#### **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**

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

#### Ratings

Ampere Rating / Voltage Rating	Ampere Range / Volt @ I.R. ability*		
800mA / 1500V DC ** 800mA-3A / 1000V DC	800mA/ 1500V @ 10kA 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		560	500	0.65
0ACF-1000-XX	1A	See Table of Ratings on Page 1 for Voltage and associated Interrupting Ratings	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

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

Typical Pre-arcing I<sup>2</sup>t are measured at 10In Current, DC battery bank.



Specifications subject to change without notice



#### AEC-Q Compliant └K C€

### **Electrical Characteristics**

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

## Type 0ACF

## **Temperature Re-Rating Curve**

Normal Operating Temperature:  $25^{\circ}$ C Operating Temperature:  $-40^{\circ}$ C to  $105^{\circ}$ C with proper correction factor applied.



## Average Time Current Curve



## **Soldering Characteristics**

## **Reflow Soldering Condition:**

Lead(Pb) free solder	
150℃	
200°C	
60 - 120 Seconds	
3°C / Second Max.	
217℃	
60 - 90 Seconds	
260 <sup>+0/-5°</sup> C	
20-40 Seconds	
20-40 06001103	
6°C / Second Max.	
8 Minutes Max.	



#### **Manual Soldering :**

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



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# 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

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## **Mechanical Dimensions**

## **Ordering Information**



## Packaging

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



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