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 ² t (A ² 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 I²t are measured at 10In Current, DC battery bank.



Specifications subject to change without notice



AEC-Q Compliant └K C€

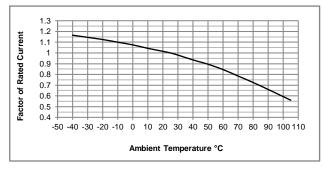
Electrical Characteristics

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

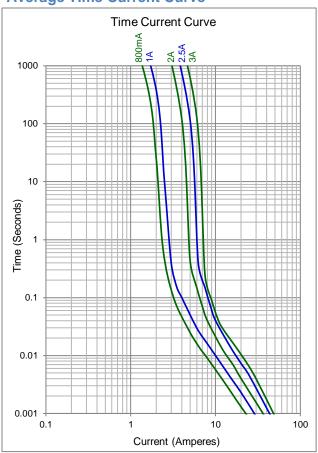
Type 0ACF

Temperature Re-Rating Curve

Normal Operating Temperature: 25° C Operating Temperature: -40° C to 105° C with proper correction factor applied.



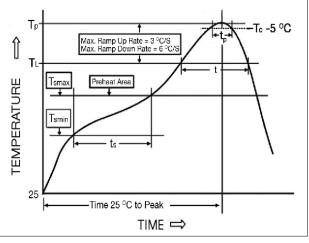
Average Time Current Curve



Soldering Characteristics

Reflow Soldering Condition:

Lead(Pb) free solder	
150℃	
200°C	
60 - 120 Seconds	
3°C / Second Max.	
217℃	
60 - 90 Seconds	
260 ^{+0/-5°} 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

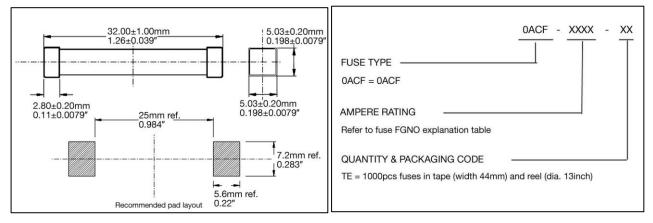
Fraction	Decimal	Milliamps	Bel FGNO[XXXX]
8/10	0.800	800	0800

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

3/3

Mechanical Dimensions

Ordering Information



Packaging

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



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