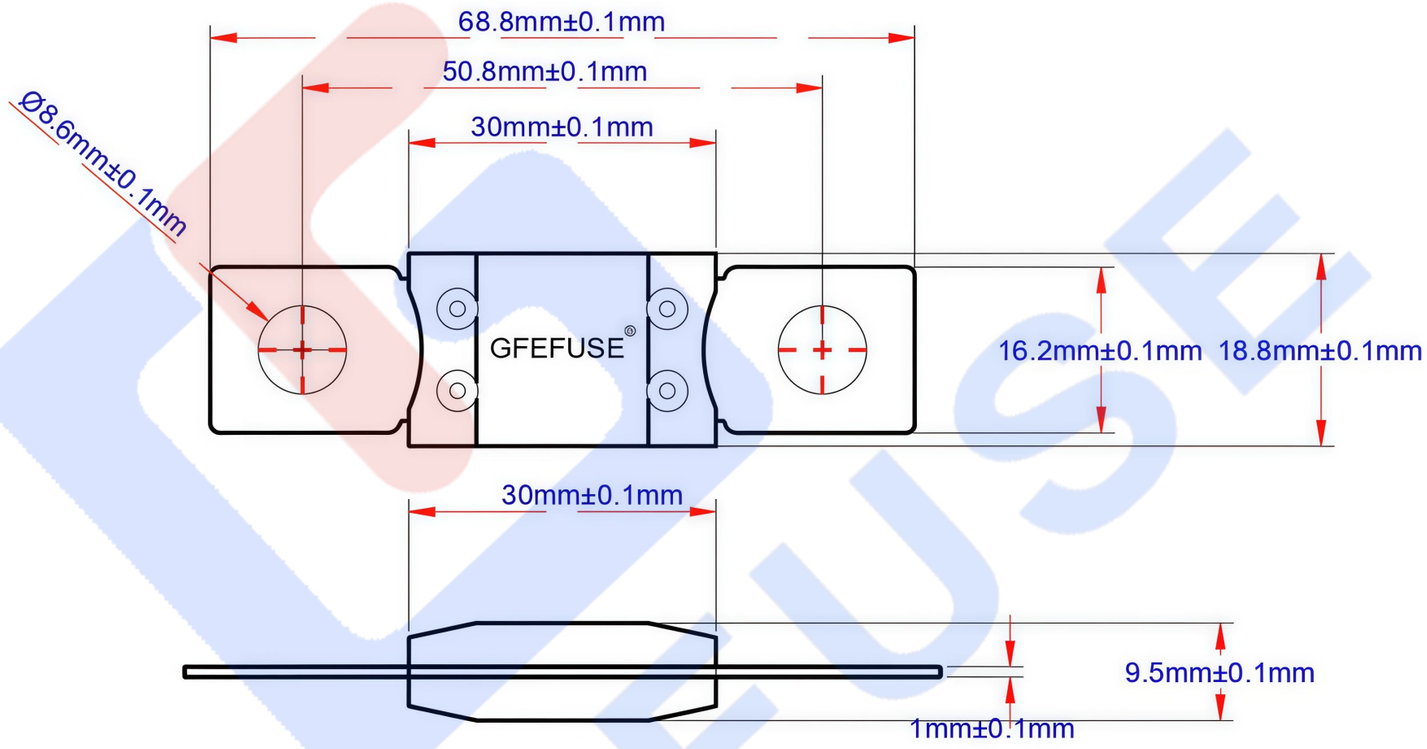
ANL-B150BSF51 Bolt-Down Automotive Fuse

1.Dimensions (mm)



2.Specifications

- Product Features
- Compact design, suitable for high current applications.
- Rated DC voltage of 150 volts
- Shell material: high-temperature PPS and ceramic
- The product complies with UL248-13 standard
- High current wire protection
- Vehicle distribution (electric motorcycles, new energy trams, charging supporting systems)
- Material processing system
- Unmanned aerial vehicle power distribution protection
- All supercapacitor and battery systems (energy storage protection system)
- Operating temperature -40 ° C to+125 ° C

3. Time-Current Characteristics

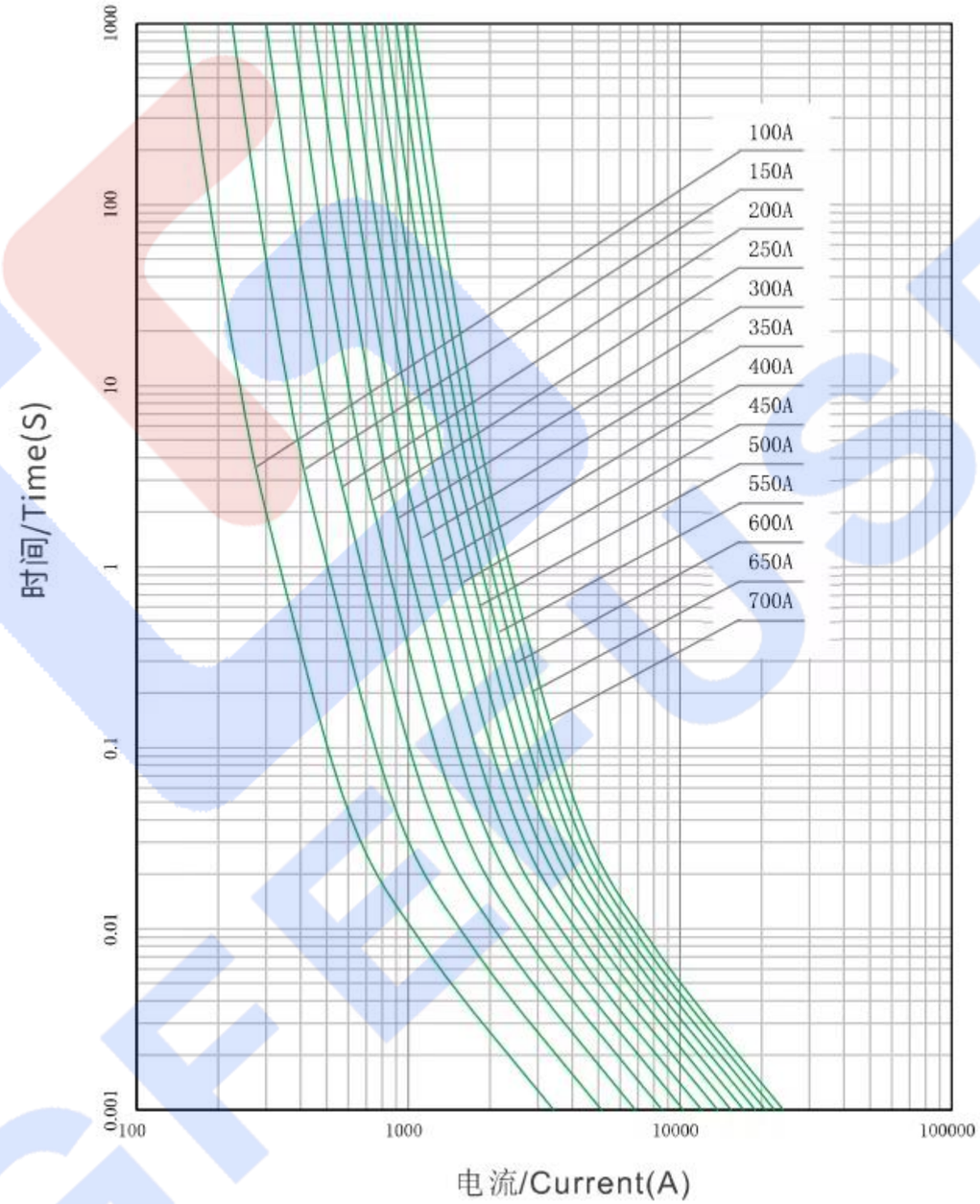
% of Rating	Opening Time Min / Max
	100A - 700A
100	4H / ∞
300	~/10S

4.Product specifications

Part Number	Rating Current(A)	Pre-arcing I²t(A²s)	Arcing I²t(A²s)	Total Clearing I²t(A²s)
ANL-B150B100SF51	100A	520	260	780
ANL-B150B150SF51	150A	980	400	1380
ANL-B150B200SF51	200A	1650	620	2270
ANL-B150B250SF51	250A	2600	950	3550
ANL-B150B300SF51	300A	3750	1400	5150
ANL-B150B350SF51	350A	5100	1900	7000
ANL-B150B400SF51	400A	6800	2550	9350
ANL-B150B450SF51	450A	8250	3225	11475
ANL-B150B500SF51	500A	10800	4000	14800
ANL-B150B550SF51	550A	13100	4850	17950
ANL-B150B600SF51	600A	15600	5700	21300
ANL-B150B650SF51	650A	18250	6550	24800
ANL-B150B700SF51	700A	21000	7400	28400

1. With a short-circuit current of 20kA and a relatively high interruption current, the melting and arcing energy is reduced simultaneously, resulting in a faster breaking speed and less impact on power devices.
2. The overload operating threshold and voltage drop remain unchanged, and the long-term current carrying capacity is not affected by the short circuit level.
3. This breakout specification meets the protection requirements of conventional low-voltage DC busbars, energy storage auxiliary circuits, and industrial control DC equipment.
4. The system short-circuit current is stable within 20kA, and this set of parameters can be directly used for device I^2t matching verification.
5. It exhibits good arc extinction stability in low-voltage and low-interruption scenarios, and can be normally adapted to circuits with L/R ≤ 25ms.
6. When selecting a device, a protection margin should be reserved, and the total breaking capacity I²t must be less than the withstand limit of the semiconductor device.

5：Time-Current Characteristic Curves


1000
100
10
1
0.1
0.01
0.001
时间/Time(S)
100A
150A
200A
250A
300A
350A
400A
450A
500A
550A
600A
650A
700A
100
1000
10000
100000
电流/Current(A)