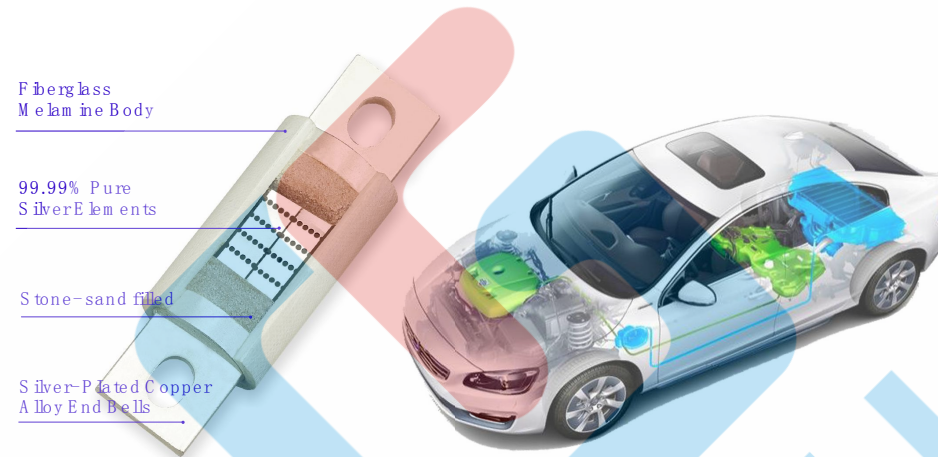


GFEV10 Series Semiconductor fuse



1. Purpose and use

This series of fuses are suitable for breaking 50kA when the rated DC/AC voltage is up to 1000V and the rated current is 800A. As the comprehensive protection of vehicle battery, new energy vehicle battery, charging post, vehicle line system and inverter, they have the characteristics of strong current limiting capacity, high breaking capacity, fast short-circuit breaking speed, and can withstand temperature shock, mechanical vibration / shock, current shock and chemistry Load, etc. This series of products comply with UL248-13. IEC 60269-4 and GB / T31465.6

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2. Normal working conditions

Ambient air temperature

Normal use conditions: - 5 °C ~ 40 °C; allowable use conditions: - 40 °C ~ + 125 °C;

When the fuse operates at a temperature above 40 °C, the rated current needs additional correction, and the correction factor - KT refers to the guide manual;

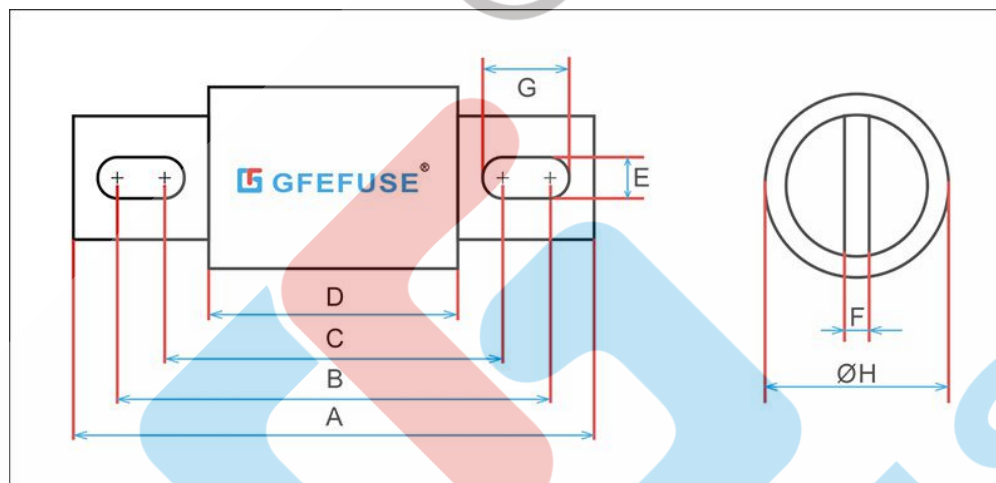
3. Use category

“aR” Fast fuse for full range protection.

4. Structural features

The melting tube of the product is made of special materials with high temperature resistance, with high fire resistance and strong hardness. The melt is sealed in the melting tube with variable cross-section melt made of 99.99% pure silver. The melting tube is filled with high-purity quartz sand and special treated chemicals as arc extinguishing medium. The contact surface is silver plated to ensure reliable electrical performance, greatly reducing temperature rise and power consumption; Both ends of the melt are firmly connected with the contact by spot welding, which greatly enhances the safety and reliability of breaking short circuit fault current.

5.Main parameters



Product model	Rated voltage (V)	Rated current (A)	Overall dimension / size (mm)							
			A±2.0	B±1.5	C±1.0	D±2.0	E±0.5	F±1.5	G±2.0	φH±1
GFEV10	1000V	35A-60A	127	108	106	79	9	3.2	9.6	24
		70A-100A	125	108	105.5	78	9	5	10.5	28.5
		125A-200A	144	122	103	83	11.5	6.5	20.8	38.8
		250A-400A	146.5	122	105.5	89	11	6.5	19.5	50.8
		450A-800A	183	152	119.5	88	14.0	9.5	30.5	63.5

6.Product parameter data sheet

No	Rated current (A)	I ² T(A ² S)		power waste (W)	Rated voltage (V)	Model
		Fore arc	Fusing			
1	35	190	1280	6.5	1000V	GFEV1035
2	40	300	1690	8	1000V	GFEV1040
3	50	450	2500	10	1000V	GFEV1050
4	60	710	4350	15	1000V	GFEV1060
5	70	850	5600	14	1000V	GFEV1070
6	80	1100	6670	16	1000V	GFEV1080
7	100	2360	12700	18	1000V	GFEV10100
8	125	3500	21500	20	1000V	GFEV10125
9	150	5020	26600	28	1000V	GFEV10150
10	200	16100	61500	32	1000V	GFEV10200
11	250	25300	115000	48	1000V	GFEV10250
12	300	27100	165000	53	1000V	GFEV10300
13	350	43000	232000	60	1000V	GFEV10350
14	400	72000	323000	65	1000V	GFEV10400
15	450	79000	310000	80	1000V	GFEV10450
16	500	106000	365000	95	1000V	GFEV10500
17	600	165000	532000	105	1000V	GFEV10600
18	700	326000	700000	152.5	1000V	GFEV10700
19	800	423000	890000	183	1000V	GFEV10800

7.Characteristic curve:

