

GFEV1 series Semiconductor fuse



1. Purpose and use

This series of fuse is suitable for the line with rated DC/AC voltage of 150V (125V) and rated current of 50kA and 70A-1000A, as the comprehensive protection of vehicle battery, vehicle line system and inverter, and has the characteristics of strong current limiting capacity, high breaking capacity, fast short-circuit breaking speed, etc., and can withstand temperature shock, mechanical vibration shock, current shock, chemical load, etc. The series products comply with IEC 6026-4 GB/T 13539.4 UL 248-13

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<http://www.gfefuse.com>

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;

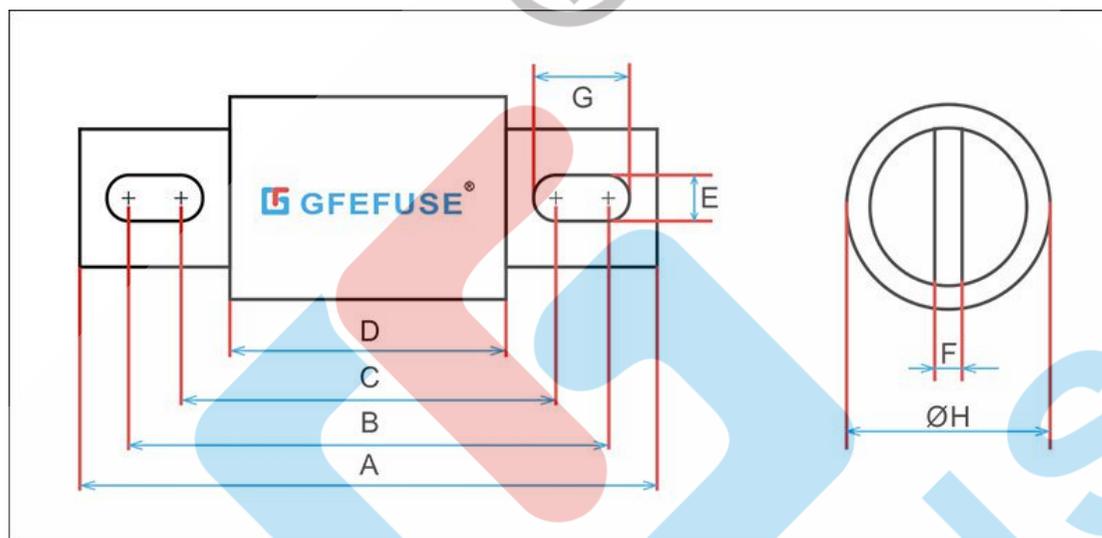
3. Use category

“aR” means 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±2.0	C±1.0	D±1.0	G±0.5	F±0.5	E±0.5	ØH±0.5
GFEV1	150V/125V	70A-400A	70	57.5	41	30	11	4	8.5	25
		450A-1000A	88	79	43	33	18	6	11	38

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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	70	450	4100	7	125V/150V	GFEV10070
2	80	650	6200	8	125V/150V	GFEV10080
3	100	1100	12100	9	125V/150V	GFEV10100
4	125	1850	18200	12	125V/150V	GFEV10125
5	150	2650	26100	14	125V/150V	GFEV10150
6	200	4750	45200	18	125V/150V	GFEV10200
7	250	7450	70100	23	125V/150V	GFEV10250
8	300	10750	100000	29	125V/150V	GFEV10300
9	350	15600	140200	32	125V/150V	GFEV10350
10	400	20200	180300	36	125V/150V	GFEV10400
11	500	38900	120500	38	125V/150V	GFEV10500
12	600	45800	139000	46	125V/150V	GFEV10600
13	800	91800	220800	60	125V/150V	GFEV10800
14	1000	168000	511000	65	125V/150V	GFEV11000

7. Characteristic curve:

