

High-Current Battery Fuse SEFUSE® D6SE Series (30A/45A*)

Highly reliable secondary protection for battery packs in high-current applications

Product information

SCHOTT SEFUSE® D6SE series battery fuses protect li-ion batteries from overcurrent and overcharging. The fuse will cut off in case of an instance of overcurrent, and its self-heater element is able to externally cut off in case of overcharging.

Applications

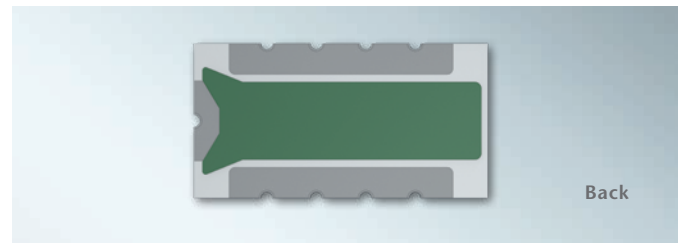
Battery packs for

- Rechargeable power and garden tools
- Cordless and robotic vacuum cleaners
- E-bikes and E-motorcycles
- Energy storage systems

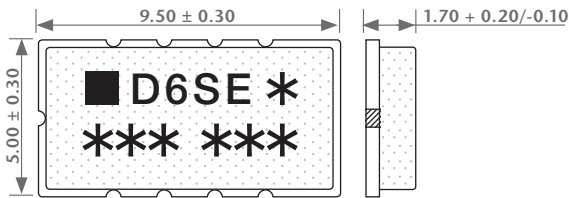
Features of D6SE Series

- High-rated current
- RoHS compliant
- Antimony-free
- Halogen-free

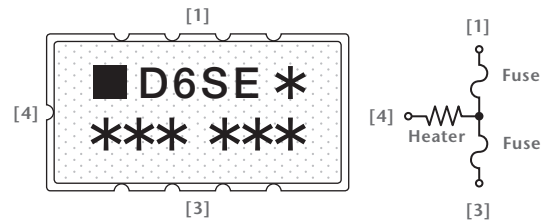
*45A rated current type is under development.



Dimensions (Unit in mm)



Wiring Diagram



Specifications

Name	Part Number	Rated Current (A)	Rated Voltage (Vdc)	Breaking Capacity (A)	Fuse Resistance (mΩ)	Applicable Series Cell Number	Applicable Voltage Range (V)	Heater Resistance (Ω)	UL	TÜV
D6SE Series	D6SE02-30	30	80	80	1.50 ± 0.50	1 – 2	4.0 ~ 9.6	1.00 ± 20%	1)*	1)*
	D6SE03-30					3	8.4 ~ 19.1	4.50 ± 20%		
	D6SE05-30					4 – 5	10.5 ~ 23.5	6.85 ± 20%		
	D6SE09-30					6 – 9	20.2 ~ 46.3	26.00 ± 20%		
	D6SE14-30					10 – 14	28.0 ~ 62.0	50.00 ± 20%		
	D6SE03-45	45	80	120	0.90 ± 0.20	3	9.8 ~ 13.5	3.45 ± 20%		
	D6SE04-45					4	13.0 ~ 18.4	6.10 ± 20%		
	D6SE05-45					5	16.7 ~ 23.5	10.10 ± 20%		
	D6SE07-45					6 – 7	22.3 ~ 31.5	17.90 ± 20%		
	D6SE10-45					9 – 10	33.0 ~ 46.9	39.40 ± 20%		
	D6SE14-45					12 – 14	43.7 ~ 62.0	69.20 ± 20%		

1)* UL/TÜV approval pending

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