

Volts-800/750VDC Amps-5A to 50A EV Fuses For New Energy Vehicles

10CT8 Series

The Prosemi EV (Electric Vehicle) fuses are made of high strength ceramic tube and high purity melt, with unique arc extinction filling technology which is Prosemi's patent technology. The EV fuses are elaborately designed according to the actual driving status of EVs, with adherence to auto industry standards (JASO, D622/ISO8820). With high vibration durability, perfect transient current intermittent tolerance, eminent thermal shock resistance and favorable flame retardant ability, the Prosemi fuses will provide you protection whether the vehicle is traveling on a flat road or under a variety of harsh conditions.



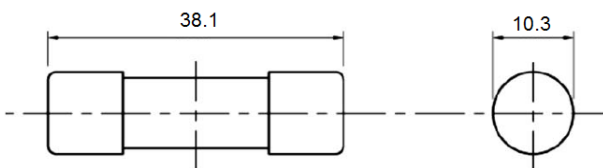
Features

- DC Fuse for EV/HEV/ESS
- Excellent DC performance
- Design to EV fuse standard UL248-20
- Reliability performance design refer to ISO8820-8&GB/T31465.6
- Comply RoHS directive

Characteristics

Electrical Characteristics		
% of Ampere Rating (A)	Operating Time (Unit: sec)	
	Min	Max
200%	0.5	100
300%	0.1	15
500%	0.05	1

Dimension(mm)



Specification

Part Number	Rated Current (A)	Rated Voltage(Vdc) Interrupting	I ² t (A ² S) Melting Pre-arc	Typical Cold Resistance (mΩ)	Typical Voltage Drop (mV) At 1.0In
10CT8-5A	5	800/50000A	35	31	190
10CT8-10A	10	800/50000A	120	12.5	130
10CT8-15A	15	800/50000A	405	7.2	140
10CT8-20A	20	800/50000A	1000	5.2	154
10CT8-25A	25	800/50000A	560	4.0	145
10CT8-30A	30	800/50000A	880	3.1	150
10CT8-40A	40	800/50000A	1,760	2.2	148
10CT8-50A	50	750/50000A	3,250	1.6	155

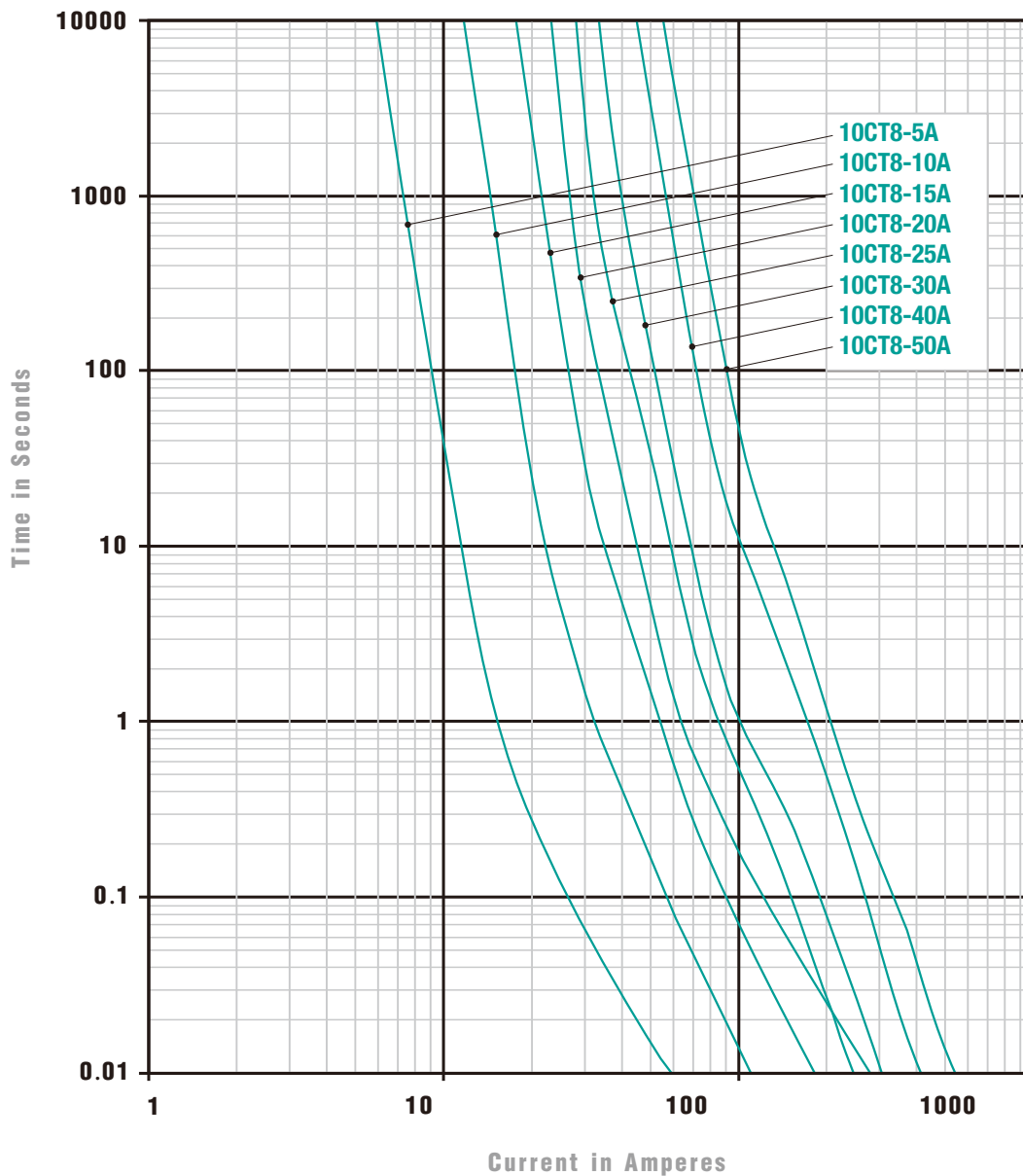
- Interrupting rating 50kA
- Typical pre-arcing I²t measured at 10In
- Tested at 70% rated current, the temperature rise is less than or equal to 50K
- Operating ambient temperature range : -40°C to +125°C

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Average Time Current Curves



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Transportation and Storage

During transportation and storage, should avoid water seepage and mechanical damage .

Operating Conditions

Where the following conditions apply, fuses complying with this standard are deemed capable of operating satisfactorily without further qualification.

If the operating conditions exceed the following requirements, please contact manufacturer.

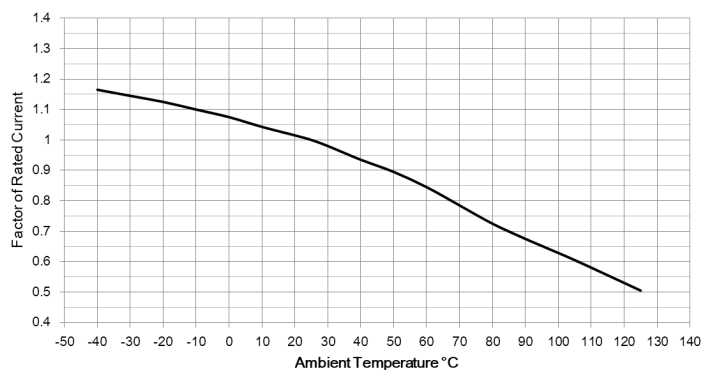
- Normal temperature: -5°C to 40°C;
- The altitude of the site of installation of the fuses does not exceed 2 000 m above sea level;
- The air is clean and its relative humidity does not exceed 50 % at the maximum temperature of 40°C;
- Higher relative humidities are permitted at lower temperatures, e.g. 90 % at 20°C;
- Under these conditions, moderate condensation may occasionally occur due to variation in temperature.

Vibration

Meet JASO D622:2006 Section 6.3.3 Vibration durability test requirement, can be use on Electrical Vehicle application;

Temperature Rerating Curve

Operating Temperature: -40°C to +125°C, with proper rerating factor applied



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