Electric Vehicle Auxiliary Fuses

1000VDC, 30A Max.





Description

- General purpose fuse for EV/HEV
- Compact bolt down and thru-hole terminals
- > 1000Vdc ideal for EV or HEV application
- Excellent DC performance
- Design refer to JASO D622:2006

Electrical Characteristics					
% of Ampere	Operating Time (Unit: s)				
Rating (A)	Min	Max			
200%	1	300			
300%	0.2	30			
500%	0.1	10			

Specifications ('YY' means Assembly code)

Ordering P/N	Rated Current (A)	Rated Voltage/ Interrupting rating	Typical cold resistance	Typical voltage drop (mV)		Typical pre- arcing l²t
			(mOhms)	At 0.5In	At 1.0In	(A ² sec)
ST101001-10YY	10		12.5	60	130	120
ST101001-15YY	15		7.2	60	140	405
ST101001-20YY	20	1000Vdc/50000A	5.2	80	154	1450
ST101001-25YY	25		4.0	63	145	560
ST101001-30YY	30		3.1	56	150	650

*Temperature Rise : <=50K with 70% of rated current

** Typical pre-arcing I²t measured at 10In

Marking

SENSATA		
ST101001-20		
1000Vdc 20A		

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Dimension (mm)





Assembly Code 'BPL'/Ordering code "ST101001-xxBPL"



Note: recommend tightening torque is 4.5+/-1.0Nm

-55.4±1-

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Assembly Code 'CP'/Ordering code "ST101001-xxCP";



Assembly Code 'FP'/Ordering code "ST101001-xxFP";



Soldering Parameter:

- Wave soldering: Solder Pot Temperature: 270°c Max.
 Solder Dwell Time: 10s Max.
- Hand-Soldering (not recommended): Solder Iron Temperature: 350°C+/- 5°C Heating Time: 5s Max.

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Time-Current Curve



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Transportation and Storage

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

Conditions for operation in service

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

- > 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;
- \blacktriangleright 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.

For operation condition **<u>other than</u>** above, please contact manufacturer.

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

