



Description

- General purpose fuse for EV/HEV
- Compact bolt down and thru-hole terminals
- > 500Vdc 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)
ST100501-10YY	10		12	60	150	120
ST100501-15YY	15		7.2	60	140	350
ST100501-16YY	16		7.18	60	145	410
ST100501-20YY	20		5.1	60	130	1000
ST100501-25YY	25	500Vac/10000A	4.25	60	135	1350
ST100501-30YY	30	500Vdc/20000A	3.15	50	130	1400
ST100501-32YY	32		3.10	50	128	1450
ST100501-35YY	35		2.80	50	125	1200
ST100501-40YY	40		2.40	50	122	2000
ST100501-50YY	50		1.50	50	110	2500

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

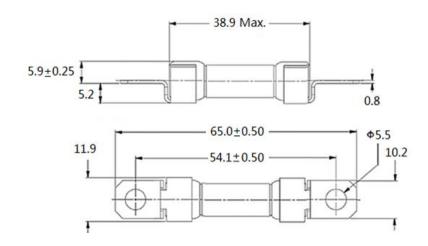
^{**} Typical pre-arcing I²t measured at 10In



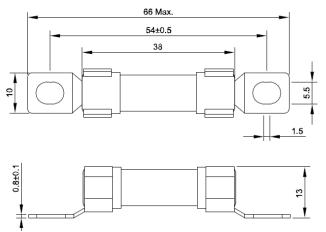


Dimension (mm)

Assembly Code 'AP'



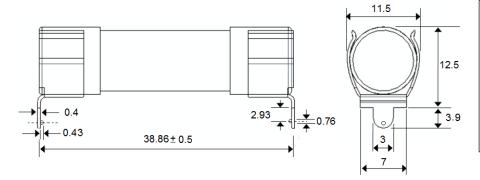
Assembly Code 'BP'





Note: For AP & BP, recommend tightening torque is 4.5+/-1.0Nm;

Assembly Code 'CP'



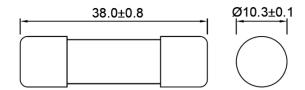
Soldering Parameter:

➤ 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.

Cylindrical



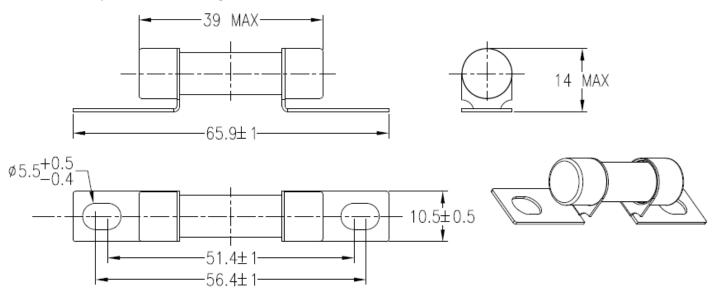
DC Fuse for EV/HEV





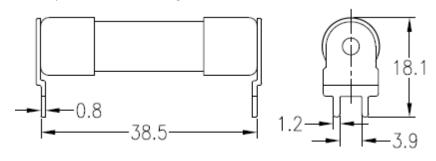
Dimension (mm)

Assembly Code 'EP'/Ordering code "ST100501-xxEP"



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

Assembly Code 'FP' /Ordering code "ST100501-xxFP";



Soldering Parameter:

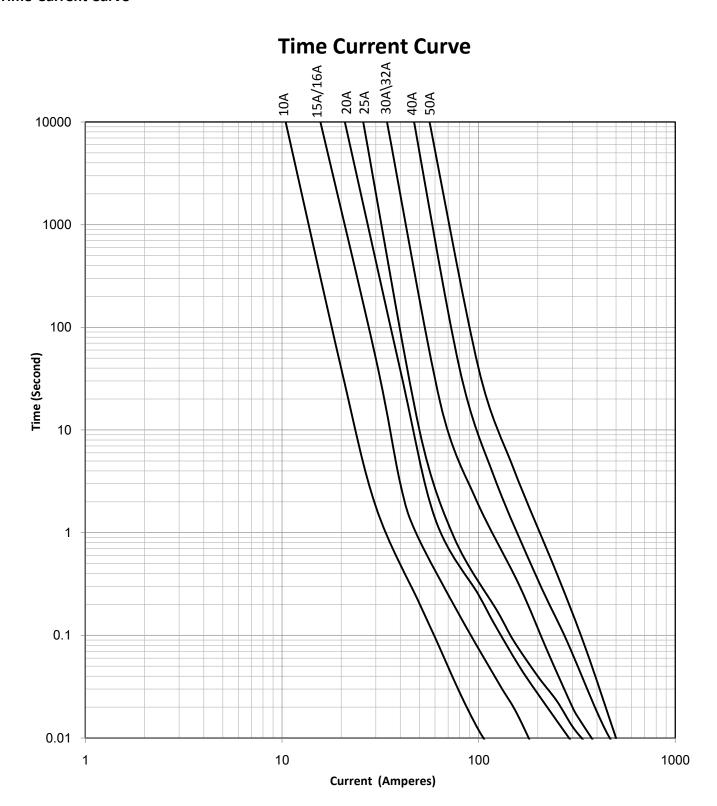
➤ Wave soldering: Solder Pot Temperature: 270°c Max. Solder Dwell Time: 10s Max.

➤ Hand-Soldering (not recommended): Solder Iron Temperature: 350°C+/- 5°C Heating Time: 5s Max.





Time-Current Curve



DC Fuse for EV/HEV





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;
- ➤ Higher relative humidity are permitted at lower temperatures, e.g. 90 % at 20 °C;
- Under these conditions, moderate condensation may occasionally occur due to variation in temperature.

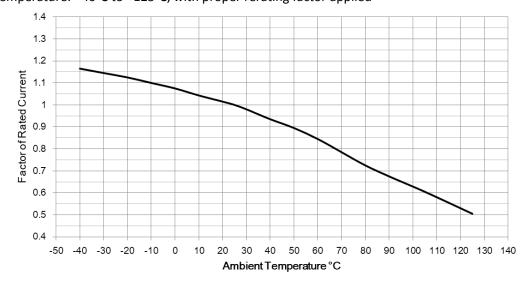
For operation condition other than above, please contact manufacturer.

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



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