

## Volts-1000 DC Amps-10 to 30A EV Fuses For New Energy Vehicles

### 10CT10 Series



#### Features

- General purpose fuse for EV/HEV
- Compact bolt down and thru-hole, optional for other installation
- Excellent DC performance
- 1000Vdc ideal for EV or HEV application
- Design refer to JASO D622:2006
- Comply RoHS directive



#### Electrical Characteristics

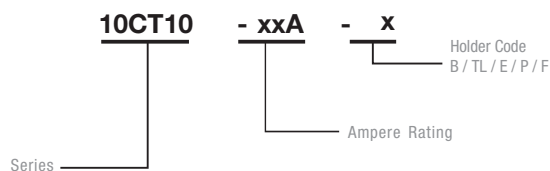
Amp Rating	% of Amp Rating	Opening Time
10~30A	200%	1~300sec
	300%	0.2~30sec
	500%	0.1~10sec

#### Specification

Part Number	Rated Current (A)	Rated Voltage/ Interrupting rating	I <sup>2</sup> t (A <sup>2</sup> S) Melting Pre-arc	Typical Cold Resistance (mOhm)	Typical Voltage Drop (mV)
10CT10-10A-x	10	1000Vdc/50000A	120	12.5	130
10CT10-15A-x	15		405	7.2	140
10CT10-20A-x	20		1000	5.2	154
10CT10-25A-x	25		560	4.0	145
10CT10-30A-x	30		650	3.1	150

- Temperature Rise : <=50K with 70% of rated current
- Typical pre-arcing I<sup>2</sup>t measured at 10In
- "-x", Holder Code

#### Part Numbering System



# Volts-1000VDC Amps-10 to 30A

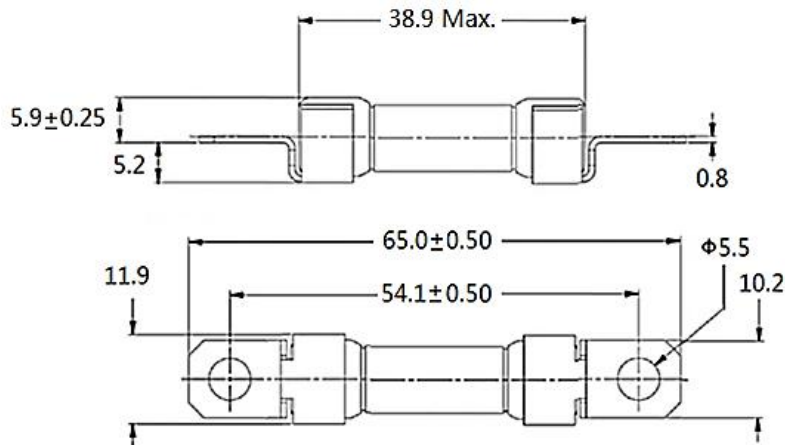
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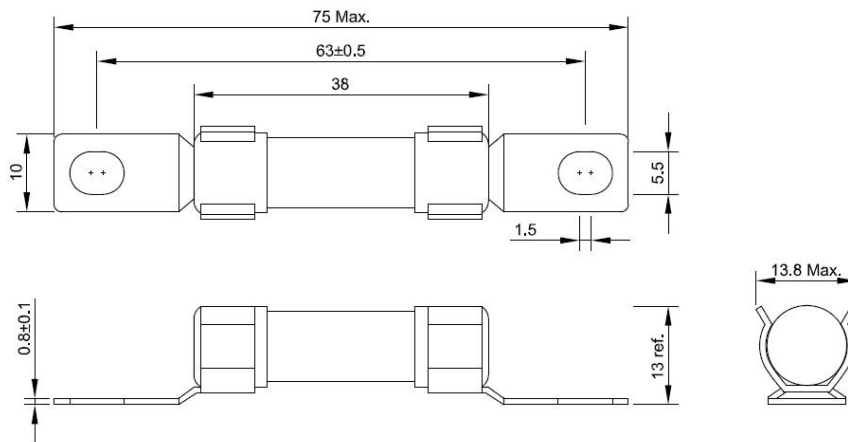
### Dimension

Unit: mm

#### 10CT10-xxA-B

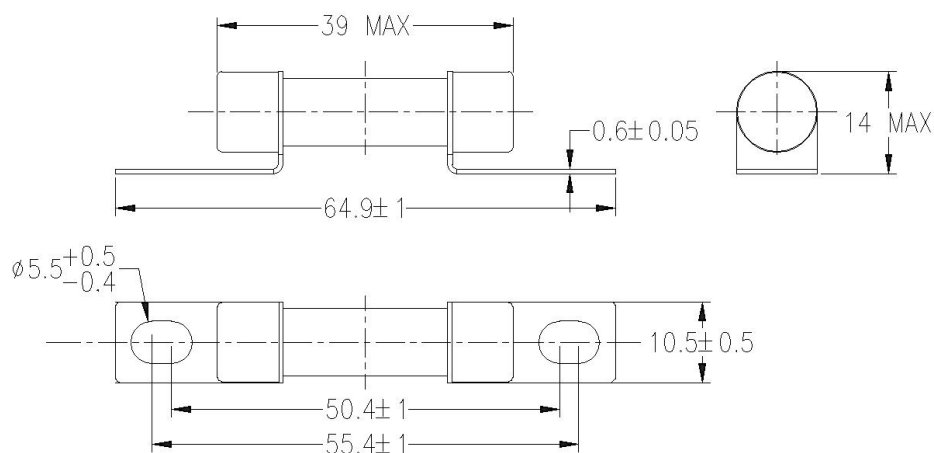


#### 10CT10-xxA-TL



#### 10CT10-xxA-E

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



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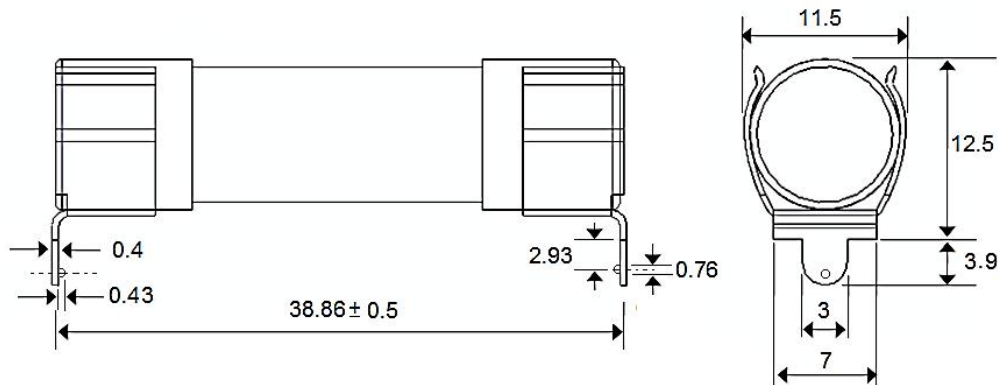
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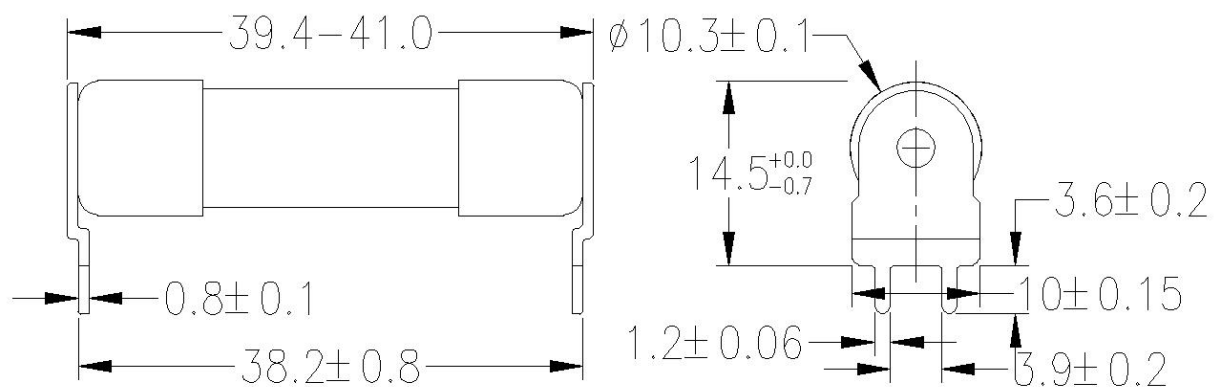
### Dimension

Unit: mm

#### 10CT10-xxA-P



#### 10CT10-xxA-F



Recommend Drilling Pattern for F holder



### Soldering Parameter:

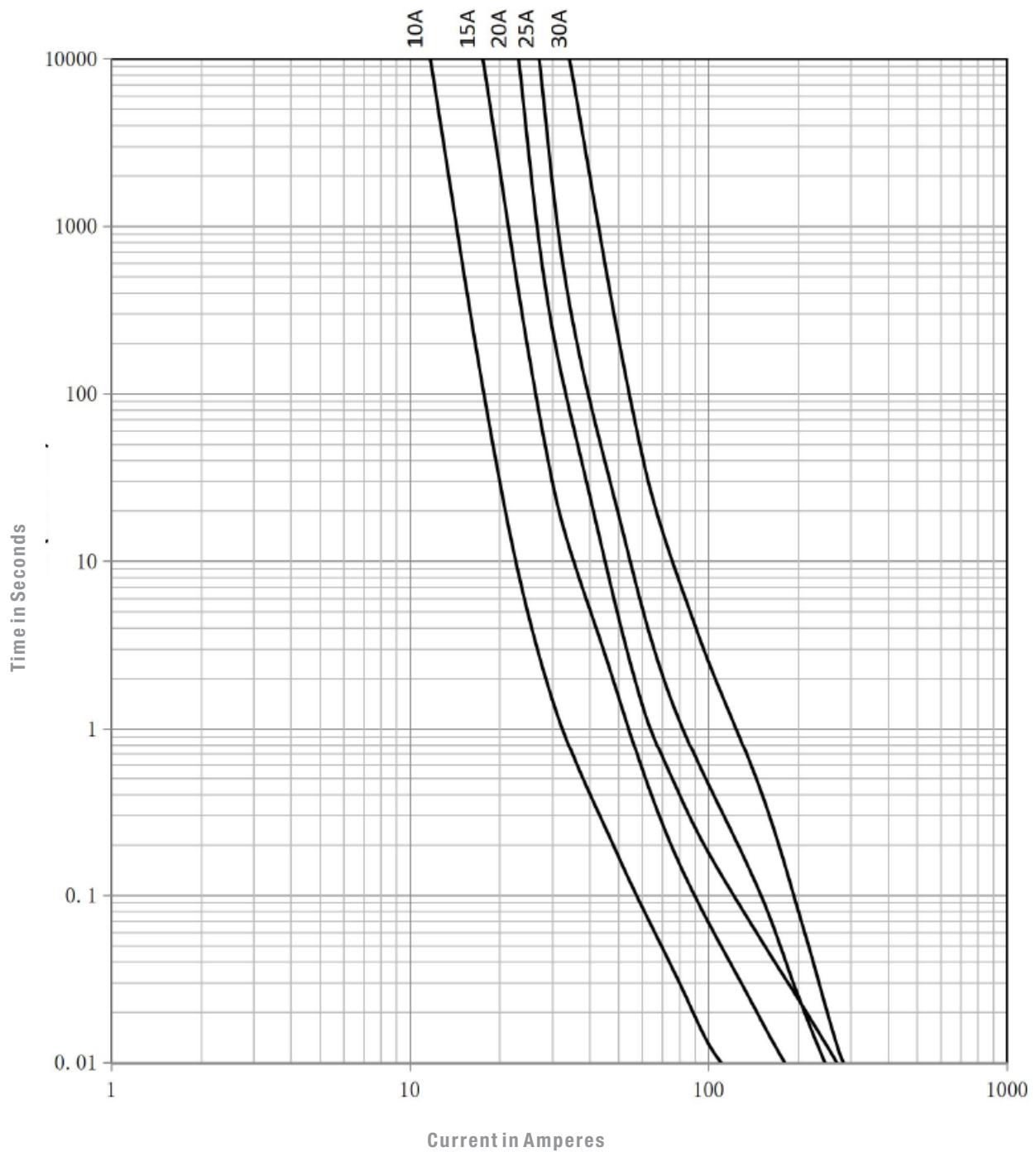
- Wave soldering:  
Solder Pot Temperature: 260°C Max. Solder Dwell Time: 10s Max.
- Hand-Soldering (not recommended): Solder Iron Temperature: 350°C+/- 5°C Heating Time: 5s Max.

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**Average Time Current Curves**



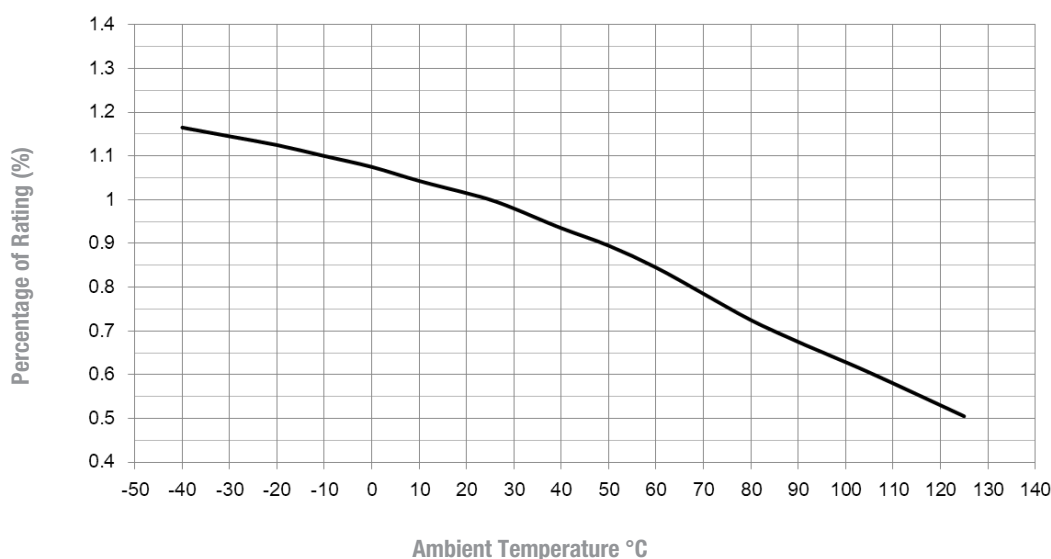
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#### Temperature Derating Curve

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



#### 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.

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;