Sensata Technologies

200Vdc, General Purpose Fuse for EV/HEV

ST3030 Series

RoHS COMPLIANT

Description

- DC fuse for EV/HEV
- Stud-mount, optional for other installation
- 200Vdc ideal for EV or HEV application
- Excellent DC performance
- Special designed fuse base for vehicle situation

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

Specifications

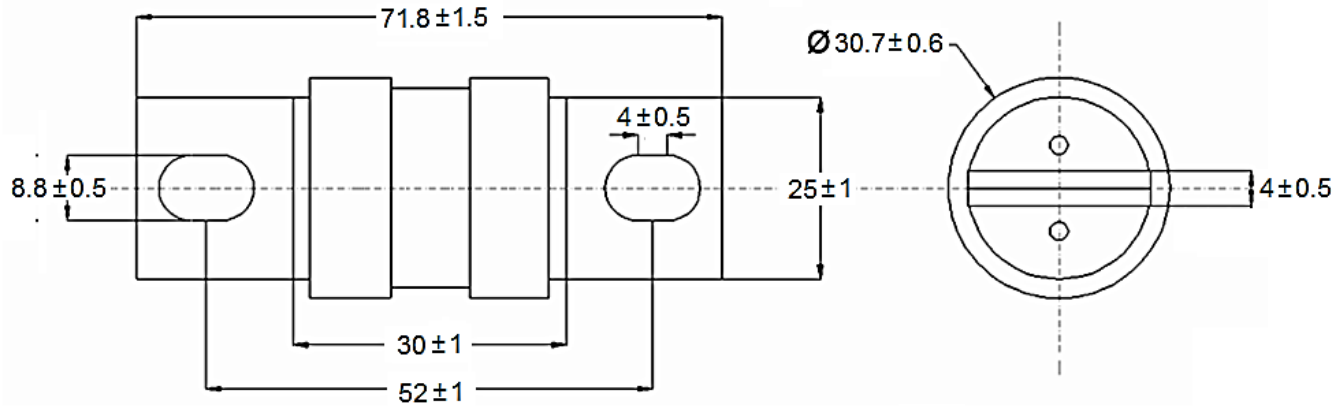
Type	Ordering P/N	Electrical Characteristics					
		Rated Current	Rated Voltage	Interrupting Rating	Typical I^2t (A^2sec)		Power Loss@0.5In
		A	VDC		Pre-arcing	Pre-arcing	0.5In (W)
Single	ST3030-100	100	200Vdc	200Vdc/20kA	4000	3500	2.1
	ST3030-150	150			9500	8700	3.2
	ST3030-200	200			18000	17500	4.1
	ST3030-250	250			28100	26600	5.1
	ST3030-300	300			54000	51000	6.6
	ST3030-350	350			80800	78500	7.5
	ST3030-400	400			115000	108000	8.4

*Temperature Rise: <=45K with 50% of rated current

** Typical pre-arcing I^2t measured at 10In

*** Typical total I^2t measured at rated I.R.

Dimension (mm)尺寸



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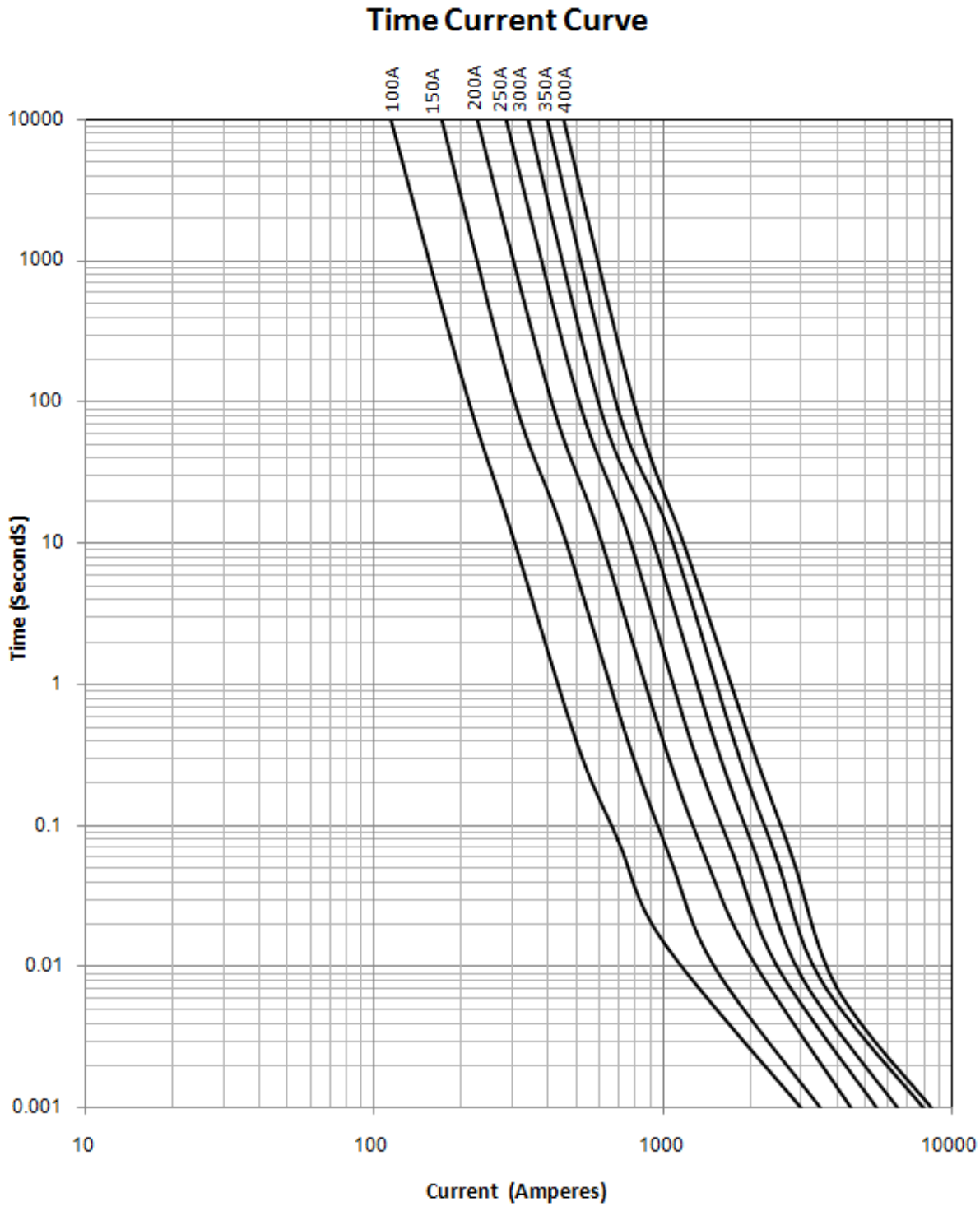
Time-Current Curve



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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℃ to 40℃;

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℃;

Higher relative humidities are permitted at lower temperatures, e.g. 90 % at 20℃;

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