



Sensata Technologies

700VAC/DC, High Speed

Fuse ST180701 Series



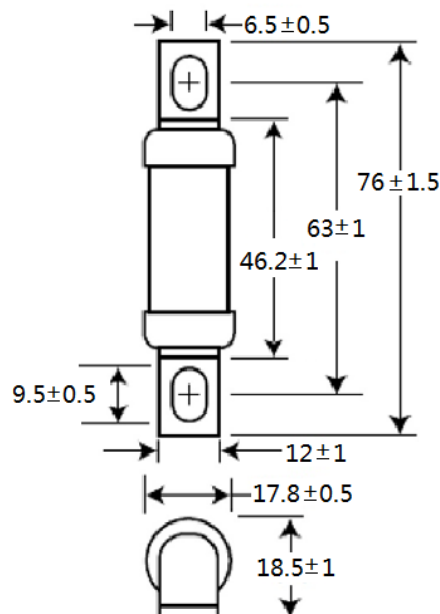
Description

- High Speed fuse
- Stud-mount
- Excellent DC performance

Specifications

Ordering P/N	Electrical Characteristics					
	Rated Current (Amp)	Rated Voltage	Breaking Capacity (kA)	Energy Integrals I ² t (A ² S)		Power Loss (W)
				Pre-Arcing	Clearing at 700V	
ST180701-5	5A	700Vac 700Vdc	50kA	30	180	1.6
ST180701-10	10A			140	850	4
ST180701-15	15A			320	2000	5.6
ST180701-20	20A			200	1300	6.2
ST180701-25	25A			210	1420	7
ST180701-30	30A			220	1500	9
ST180701-35	35A			270	1800	11
ST180701-40	40A			400	2600	12
ST180701-50	50A			500	3300	13.5
ST180701-60	60A			730	4800	15
ST180701-70	70A			890	5700	18
ST180701-80	80A			960	6200	20
ST180701-90	90A			1200	7400	23
ST180701-100	100A			1400	9100	25

Dimension (mm)





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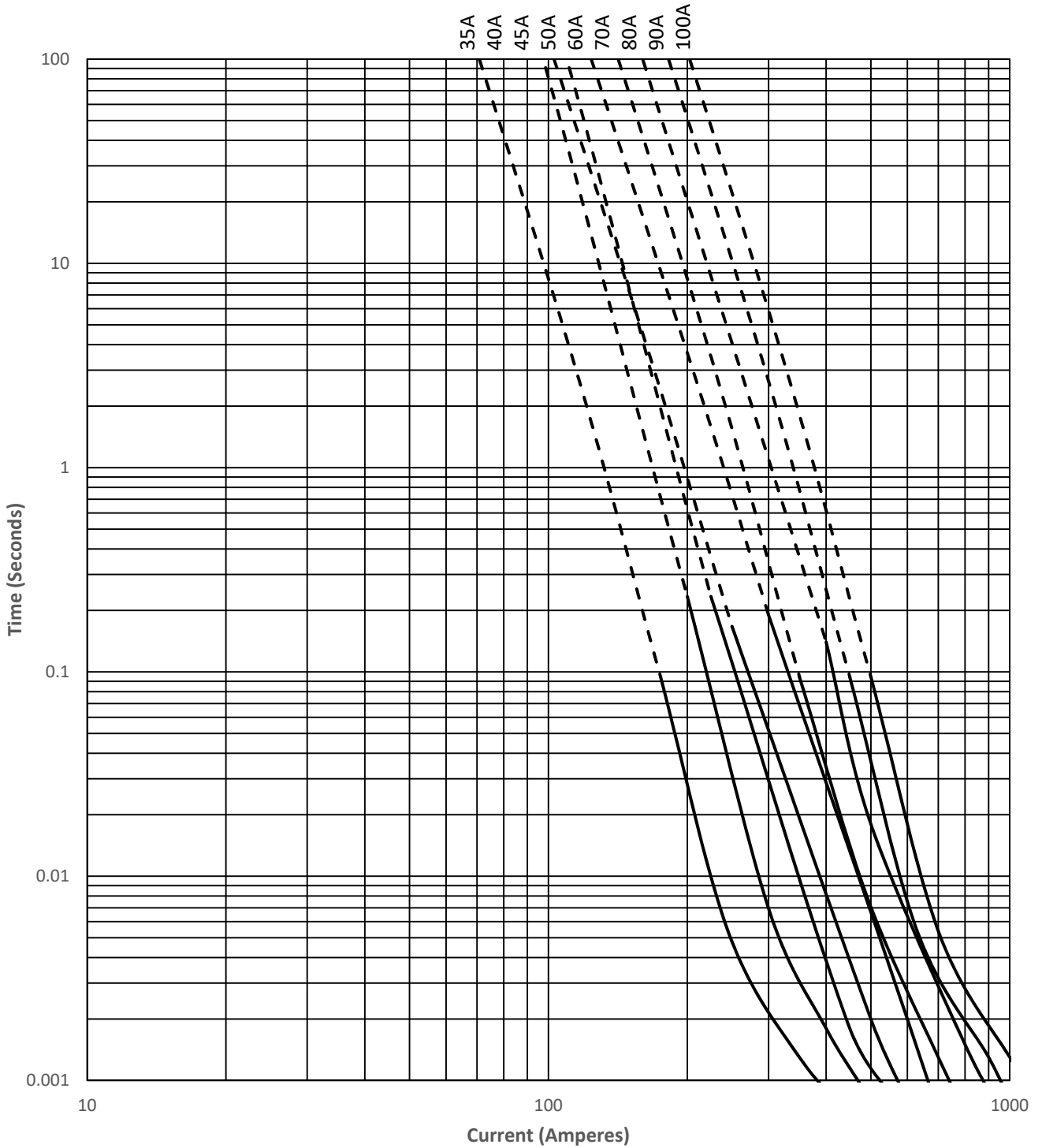
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Time-Current Curve 时间电流曲线

Time Current Curve

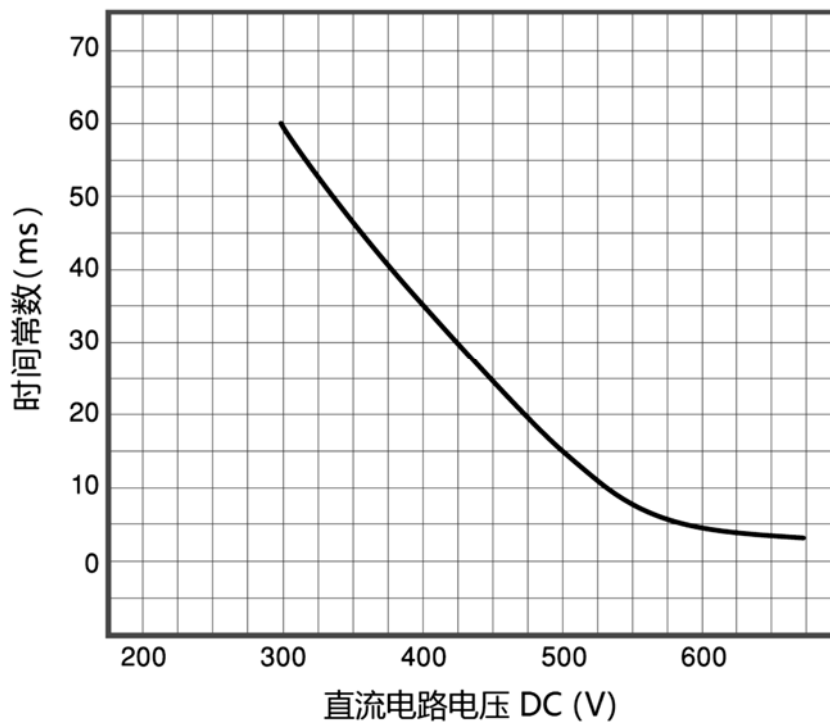


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Application Note

- A fuse is easily influenced by its surrounding atmosphere and by the power of the continuous electric current passing through it. To lengthen the life span of your fuses, ensure that your target workload is less than 65% of their rated current.
- When using a fuse in a DC circuit, depending on the circuit condition, you may have to use a higher rated voltage fuse than the circuit voltage. (See time constant graph below)



Re-rating curve of L/R-Rated voltage in DC circuit.

- If there is a possibility of due to an over loaded current which is in dot-line zone of TCC curve, the fuse should be used in conjunction with other protectors.



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- When the applied current is lower than the rated current, you can get the value of the power loss as follow:

Power loss of rated current * Coefficient α of the applied current.

