Sensata Technologies

500VAC/DC, High Speed Fuse ST180501 Series

E470032

Description

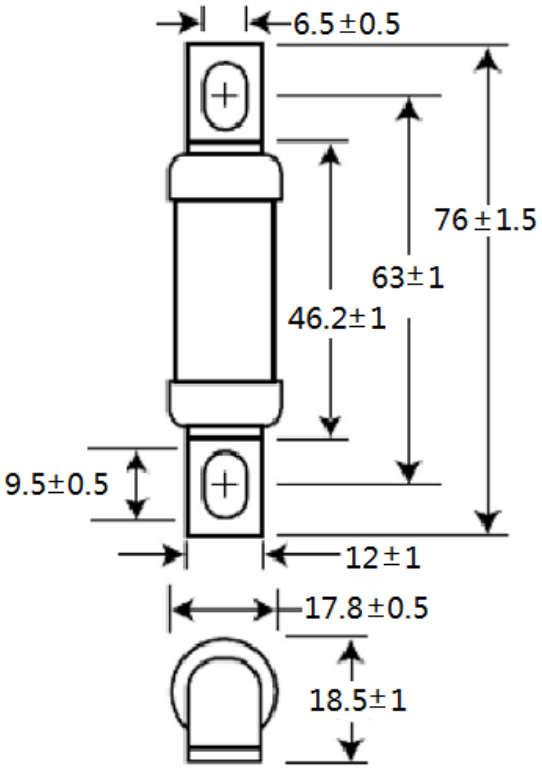
- High Speed fuse
- Stud-mount
- Excellent DC performance

Specifications

Ordering P/N	Electrical Characteristics					
	Rated Current (Amp)	Rated Voltage	Breaking Capacity (kA)	Energy Integrals I^2t (A^2S)		Power Loss (W)
				Pre-Arcing	Clearing at 500V	
ST180501-35	35A	500Vac 500Vdc	50kA	220	1000	6
ST180501-40	40A			280	1250	6.5
ST180501-45	45A			405	1800	7.5
ST180501-50	50A			500	2300	8.7
ST180501-60	60A			750	3300	10.5
ST180501-70	70A			880	3900	12
ST180501-80	80A			960	4300	15
ST180501-90	90A			1200	5400	17
ST180501-100	100A			1400	6500	18.5

Dimension (mm)

Single



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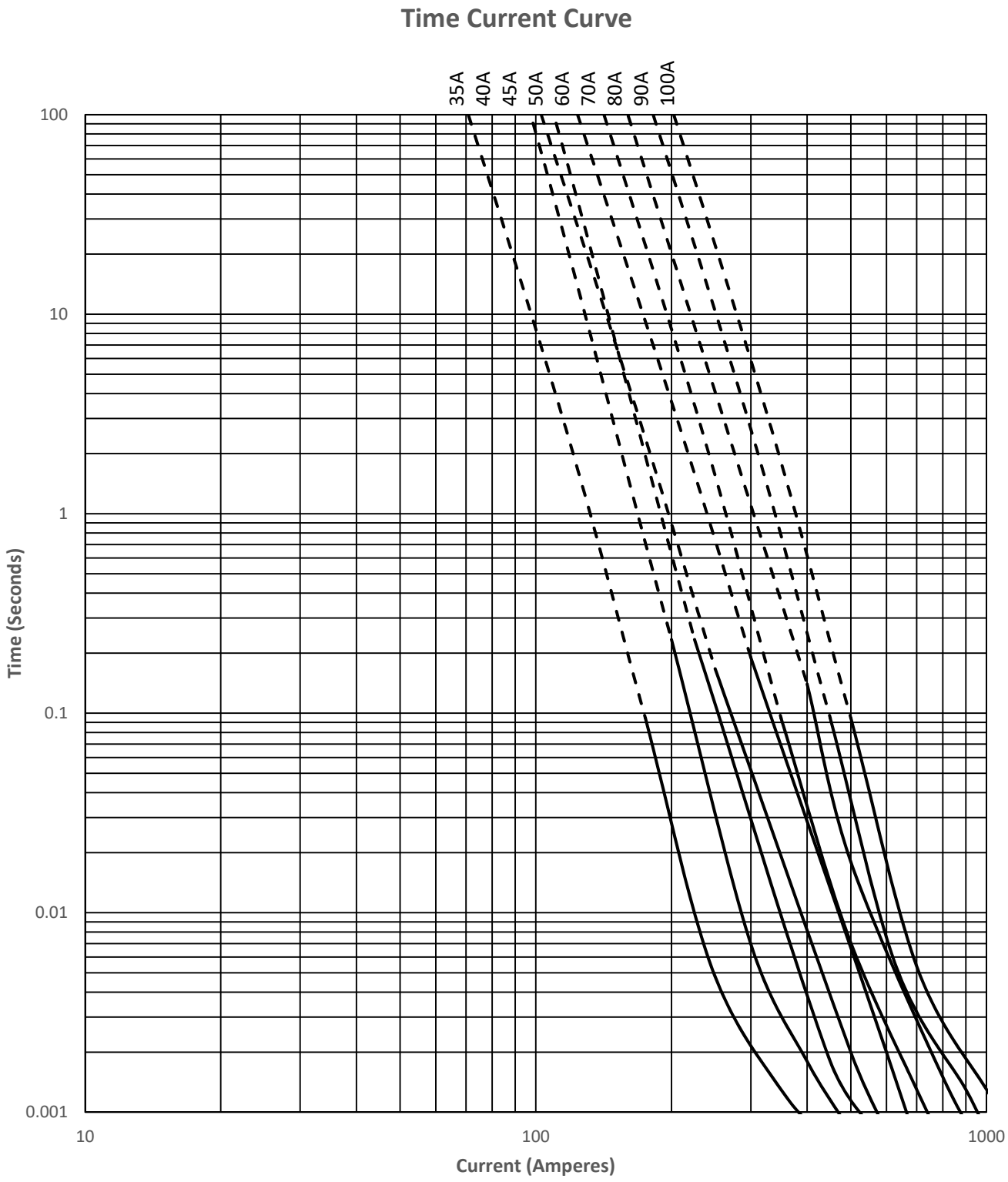
RoHS COMPLIANT

Time-Current Curve



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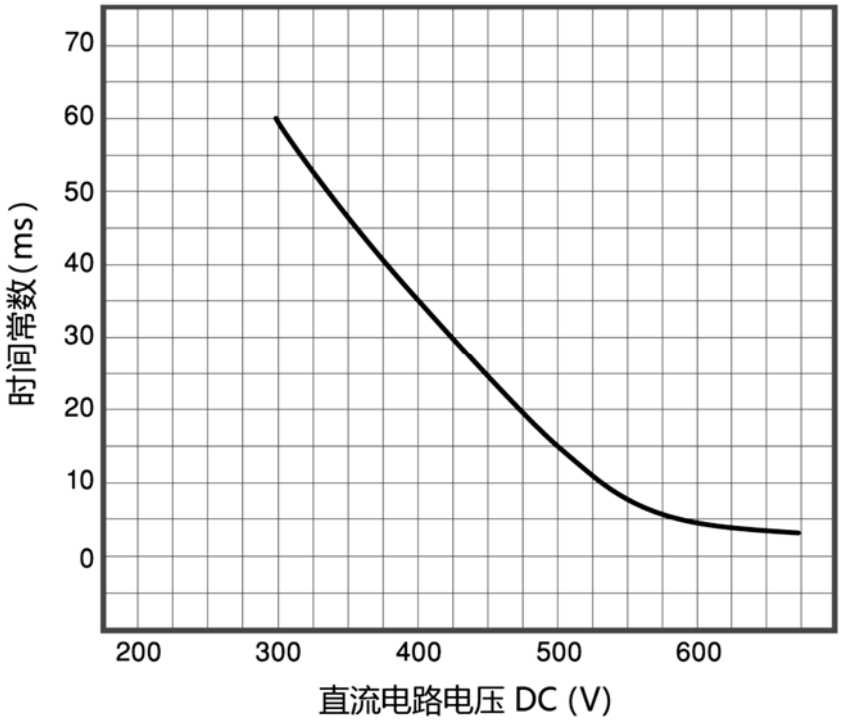
Application Note

- 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.

- 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.