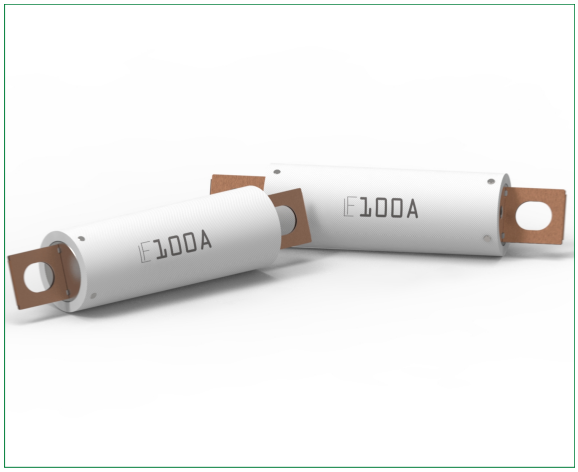
High Voltage 25EV1K fuse

Rated 1000 V DC

RoHS



Description

The 25EV1K fuse is designed for protection of high-voltage circuits in electric and hybrid electric vehicles.

Features & Benefits

- Interrupting Rating of 30 kA @ 1000 Vdc
- Voltage Rating of 1000 Vdc
- Operates from -40 °C to +125 °C
- Typical weight of 100 g
- Mounting Torque of 12 ±1 Nm (ISO prescription)
- Melamine body with UL 94 flammability ratings of V-0
- End caps in zinc alloy
- Terminal in copper alloy
- Refers to ISO 8820-8

Applications

Use 25EV1K fuses to protect circuits in EV and Hybrid passenger vehicles.

Ratings

Part Number	Current Rating (A)	Typ. Voltage Drop at 100% Ir (mV)	Test Cable Size (mm²)	Typical Cold Resistance (mΩ)	Typical Melting I²t (A²s)
25EV1K070.ZXBDM*	70	240	10	2.41	8 500
25EV1K080.ZXBDM*	80	210	10	1.76	15 000
25EV1K090.ZXBDM*	90	170	20	1.22	17 000
25EV1K100.ZXBDM*	100	210	20	1.16	21 000
25EV1K125.ZXBDM*	125	180	20	0.85	55 000

The typical I^2t is an average value calculated from the breaking capacity tests by using the melting time before the arcing occurs.

(*) Products in development - Final values for voltage drop, resistance, melting I²t and T/C curves will be generated from PV tests data.
Please contact Littelfuse® for more details regarding availability timing.

Ordering Information

Part Number	Rating	Termination	Package Size
25EV1Kxxx.ZXBDM	70 A - 125 A	M8 Bolt Down	56

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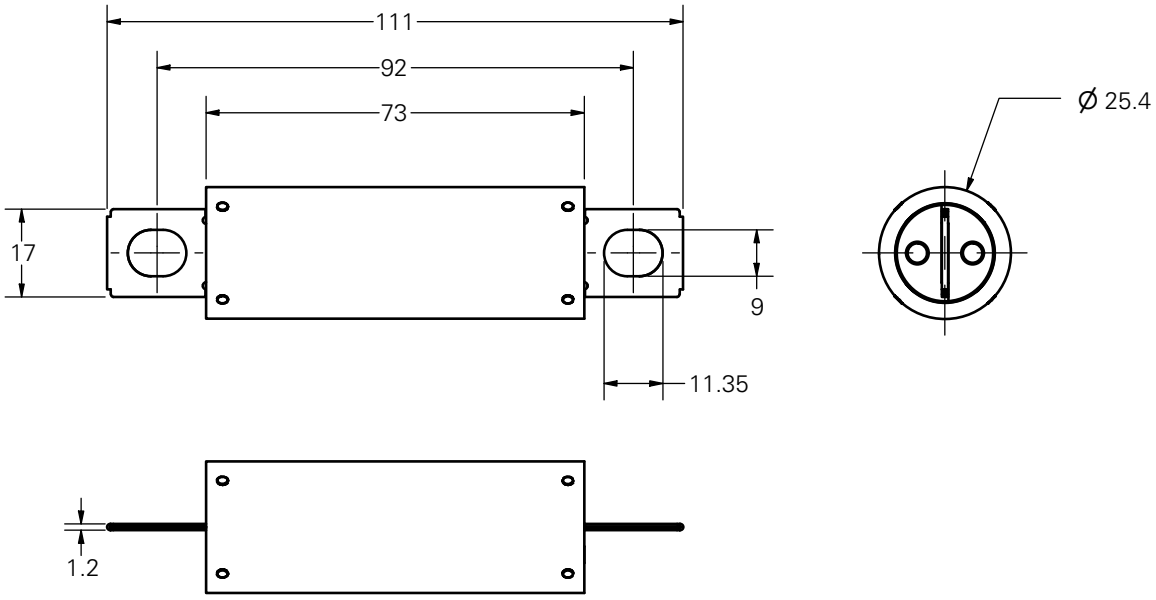
Dimensions

Dimensions in mm. Please refer to the outline drawing for dimensions, tolerances and markings.



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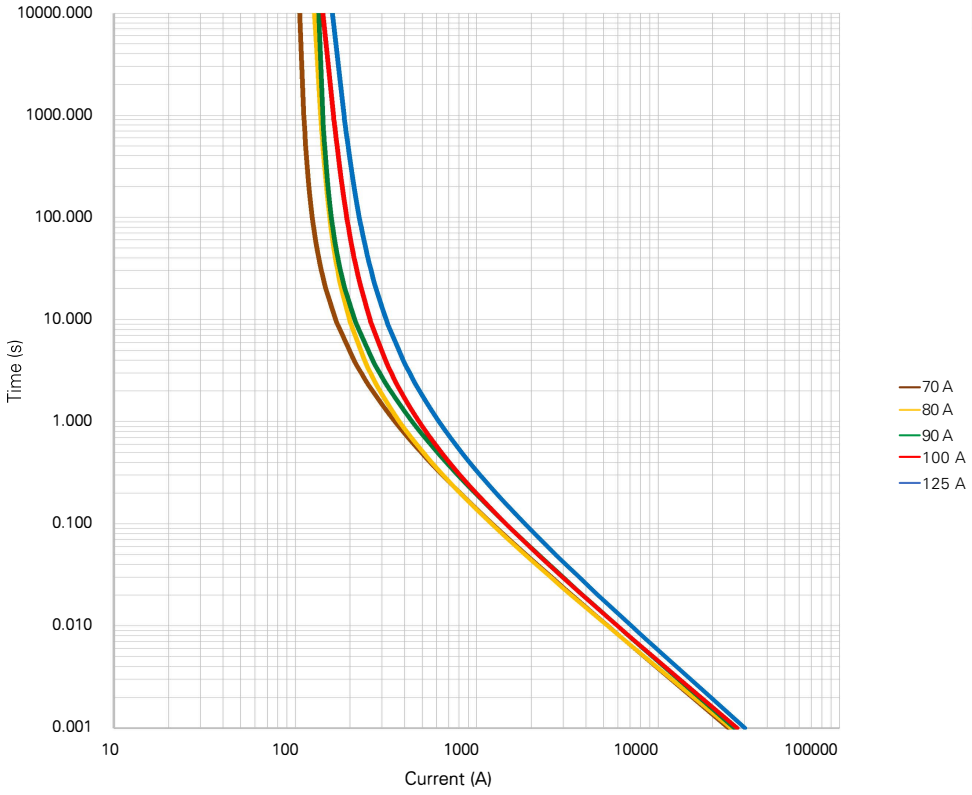
Time-Current Characteristic

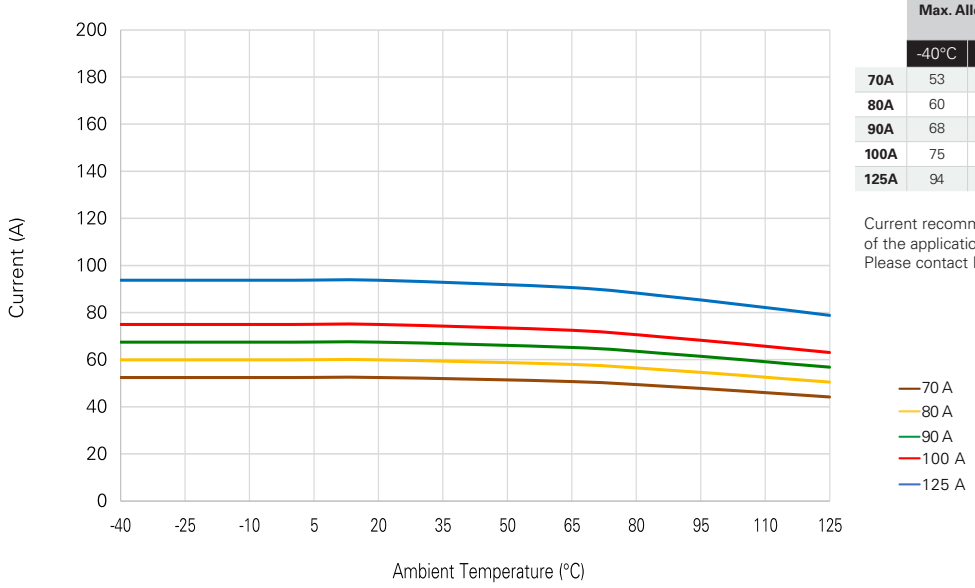
Please contact Littelfuse® for Details Regarding Test Set Up



% of Rating	Opening Time Min. / Max. (s)
135	150 / 3600
150	20 / 1500
200	1 / 300
300	0.2 / 30
500	0.05 / 1

Typical Rerating Curves

Please contact Littelfuse® for Details Regarding Rerating Test Set Up



	Max. Allowed Current Load (A) at Ambient Temperature based on Typical Rerating						
	-40°C	0°C	20°C	65°C	85°C	110°C	125°C
70A	53	53	53	51	49	46	44
80A	60	60	60	58	56	53	51
90A	68	68	68	65	63	59	57
100A	75	75	75	73	70	66	63
125A	94	94	94	91	87	83	79

Current recommendation may be impacted by the final condition of the application (terminals characteristics, wire size etc..). Please contact Littelfuse® for more information.