

High Voltage Fuse - LC HEV

Rated 450 V DC



Low Current HEV Fuses

Specifications

Voltage Rating (10 A, 15 A, 20 A, 30 A):	450 V DC
Voltage Rating (40 A):	425 V DC
Interrupting Rating (10 A, 15 A, 20 A, 30 A):	10 kA @ 450 V DC
Interrupting Rating (40 A):	10 kA @ 425 V DC
Operating Temperature Range:	-40 °C to +125 °C

*Note: The OHEV040.ZXBD is rated at 450 V dc.

Features & Benefits

- Available with blade, bolt down, or PCB connectors
- Available as a cartridge fuse

Description

LC HEV fuses come in six configurations. Each version of the cylindrical high-voltage fuse protects circuits in EVs and hybrid passenger vehicles. Ask Littelfuse which configuration best meets your needs.

Applications

- EVs
- Hybrid vehicles






Ordering Information

Part Number	Termination	Package Size
OHEVxxx.ZXC	Cartridge	240
OHEVxxx.ZXISO	Bolt Down (ISO)	240
OHEVxxx.ZXPY	Blade	240
OHEVxxx.ZXBD	Bolt Down (Axial)	240
OHEVxxx.ZXPCB	PCB Mount	240
OHEVxxx.ZXPCBL	PCB Mount (Long)	240

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Ratings

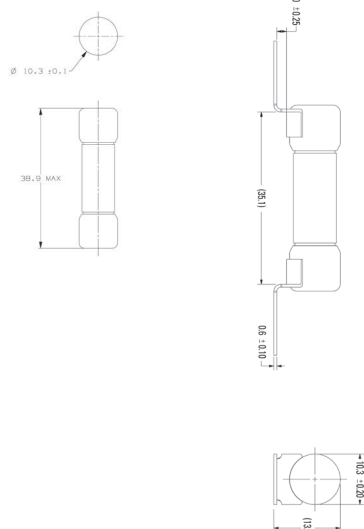
Part Number	Current Rating (A)	Color Code	Typical Voltage Drop at 70% I _R (mV)	Maximum Voltage Drop Spec at 100% I _R (mV)	Typical Cold Resistance (mΩ)	Minimum Melting I ² t (A ² s)
0HEV010.xxx	10		114	300	12.8	255
0HEV015.xxx	15		96	200	7.9	133
0HEV020.xxx	20		79	200	5.0	268
0HEV030.xxx	30		67	200	2.7	993
0HEV040.xxx	40		69	200	2.0	1495

The typical I²t is an average value calculated from the breaking capacity tests by using the melting time before the arcing occurs.

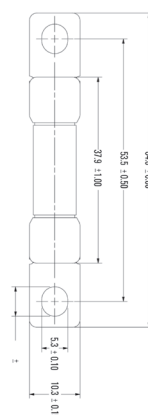
Dimensions

Dimensions in mm

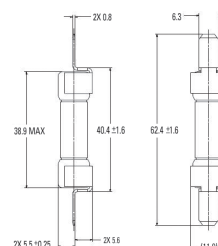
ZXC Cartridge



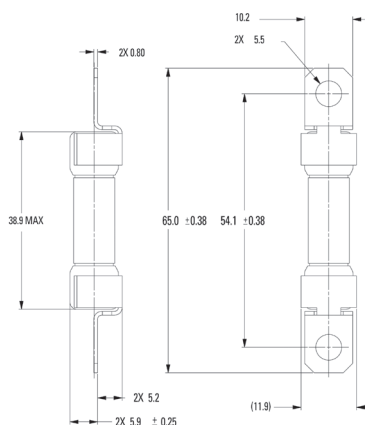
ZXISO Bolt Down (ISO)



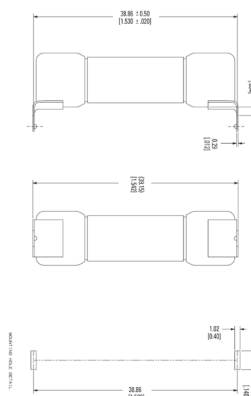
ZXPY Blade



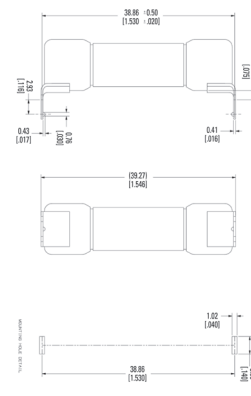
ZXBD Bolt Down (Axial)



ZXPCB PCB Mount



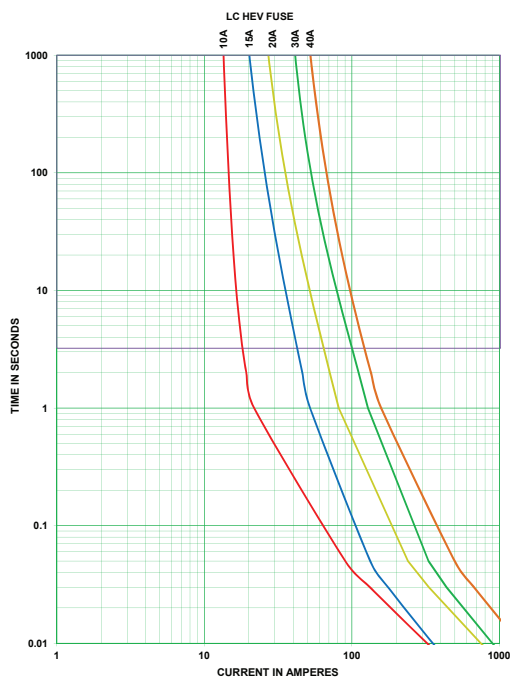
ZXPCBL PCB Mount (Long)



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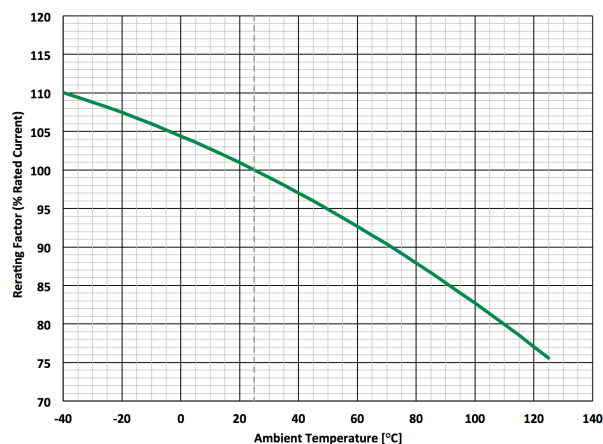
Time-Current Characteristic Curves



Time-Current Characteristics

% of Rating	Opening Time	Opening Time	Opening Time
	Min. / Max. (s)	Min. / Max. (s)	Min. / Max. (s)
	10 A	15 A, 20 A, 30 A	40 A
100	100 hrs / -	100 hrs / -	100 hrs / -
110	4 hrs / -	4 hrs / -	-
135	100 / 3600	150 / 3600	150 / 3600
150	10 / 1000	10 / 1000	10 / 1000
200	0.5 / 100	0.5 / 100	0.5 / 100
300	0.1 / 15	0.1 / 15	0.1 / 15
500	0.05 / 1	0.05 / 1	0.05 / 1

Typical Derating Curve



Derating curves may change depending on the final condition of the application (terminals characteristics, wire size etc.). Please ask Littelfuse for more information.