High Voltage Fuses





Low Current HEV Fuses



Low Current HEV Fuse

The LC HEV fuse is designed for protection of high-voltage accessory circuits in electric and hybrid electric vehicles.

Specifications

Ordering Information

 Voltage Rating (10A, 15A, 20A, 30A):
 450 VDC

 Voltage Rating (40A):
 425 VDC

 Note: The 0HEV040.ZXBD is rated at 450 VDC
 10kA @ 450 VDC

 Interrupting Rating (10A, 15A, 20A, 30A):
 10kA @ 450 VDC

 Interrupting Rating (40A):
 10kA @ 425 VDC

 Operating Temperature Range:
 -40°C to +125°C

Time-Current Characteristics

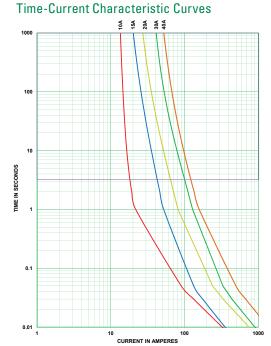
| Part Number | Termination | Package Size | % of Rating | Opening Time Min / Max (s) 10A | Opening Time Min / Max (s) 15A, 20A, 30A | Opening Time Min / Max (s) 40A |
|----------------|-------------------|-----------------|----------------|--------------------------------------|--|--------------------------------------|
| OHEVxxx.ZXC | Cartridge | 240 | | | | |
| 0HEVxxx.ZXIS0 | Bolt Down (ISO) | 240 | 100 | 100 hrs / - | 100 hrs / - | 100 hrs / - |
| 0HEVxxx.ZXPY | Blade | 240 | 110 | 4 hrs / - | 4 hrs / - | - |
| | | 240 | 135 | 100 / 3600 | 150 / 3600 | 150 / 3600 |
| 0HEVxxx.ZXBD | Bolt Down (Axial) | | 150 | 10 / 1000 | 10 / 1000 | 10 / 1000 |
| OHEVxxx.ZXPCB | PCB Mount | 240 | 200 | 0.5 / 100 | 0.5 / 100 | 0.5 / 100 |
| OHEVxxx.ZXPCBL | PCB Mount (Long) | 240 | 300 | 0.1 / 15 | 0.1 / 15 | 0.1 / 15 |
| | | | 500 | 0.05 / 1 | 0.05 / 1 | 0.05 / 1 |

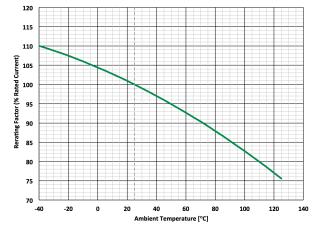
Ratings

| Part Number | Current Rating (A) | Color Code | Typical Voltage Drop at 70% I _R (mV) | Maximum Voltage Drop Spec at 100% IR (mV) | Typical Cold Resistance (mΩ) | Minimum Melting I²t (A²s) |
|-------------|--------------------------|---------------|---|---|------------------------------------|---------------------------------|
| 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 |
| OHEV040.xxx | 40 | | 69 | 200 | 2.0 | 1495 |

Temperature Rerating Curve

(Average Initial Measurements)





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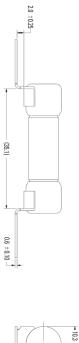
Low Current HEV Fuse

Dimensions

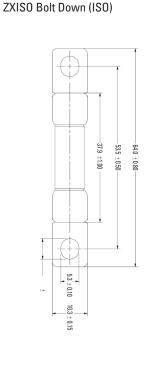
Dimensions in mm

ZXC Cartridge

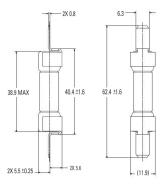




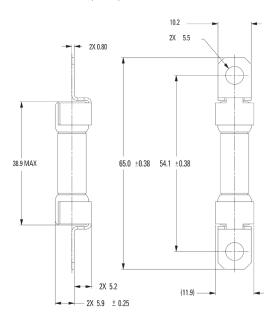
±0.20•



ZXPY Blade

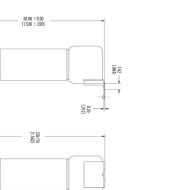


ZXBD Bolt Down (Axial)

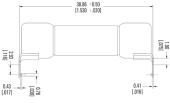


ZXPCB PCB Mount

ZXPCBL PCB Mount (Long)











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