

LOW CURRENT HEV FUSE

RoHS



Description

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

Time-Current Characteristics

| % of Rating | Opening Time Min / Max (s) 10A | Opening Time Min / Max (s) 15A, 20A, 30A | Opening Time Min / Max (s) 40A |
|-------------|--------------------------------------|--|--------------------------------------|
| 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 |

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) |
|-------------|-----------------------|------------|---|---|------------------------------------|--|
| OHEV010.xxx | 10 | Red | 114 | 300 | 12.8 | 255 |
| OHEV015.xxx | 15 | Blue | 96 | 200 | 7.9 | 133 |
| OHEV020.xxx | 20 | Yellow | 79 | 200 | 5.0 | 268 |
| OHEV030.xxx | 30 | Green | 67 | 200 | 2.7 | 993 |
| OHEV040.xxx | 40 | Orange | 69 | 200 | 2.0 | 1495 |

(Average Initial Measurements)

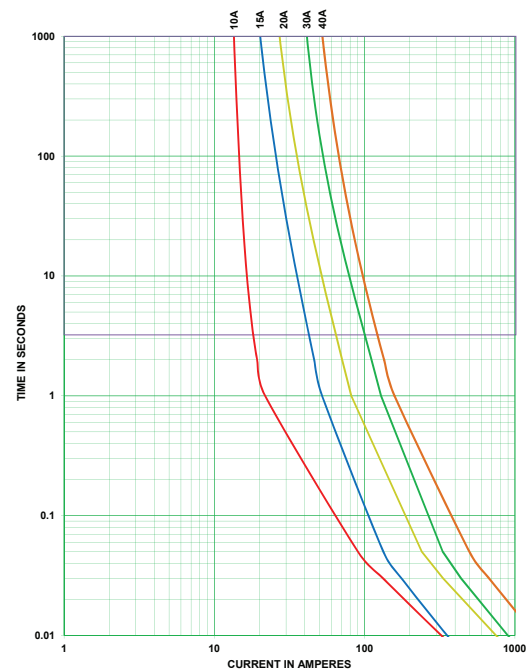
Specifications

| | |
|--|-----------------|
| Voltage Rating (10A, 15A, 20A, 30A): | 450 VDC |
| Voltage Rating (40A): | 425 VDC |
| Note: The OHEV040.ZXBD is rated at 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 |

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 |

Time-Current Characteristic Curves



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Dimensions

Dimensions in mm

ZXC Cartridge



ZXISO Bolt Down (ISO)



ZXPY Blade



ZXBD Bolt Down (Axial)



ZXPCB PCB Mount



ZXPCBL PCB Mount (Long)

