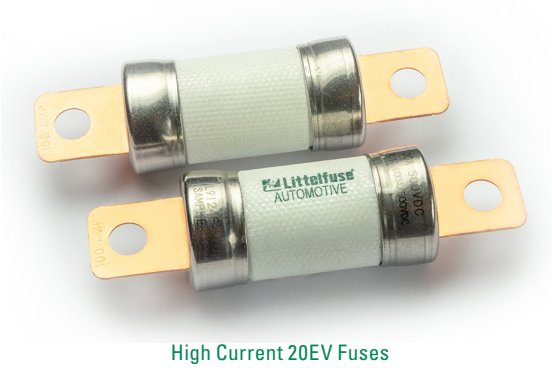
# High Voltage Fuse

Littelfuse
Expertise Applied | Answers Delivered




High Current 20EV Fuses

## High Current 20EV Fuse

The HC HEV fuse is designed for protection of high-current / high-voltage circuits in electric and hybrid electric vehicles employing an industry-standard footprint. The HC HEV fuse provides time-delay characteristics with "Diffusion Pill Technology."

### Specifications

| | |
|---|---|
| Interrupting Rating: | 16KA @ 500VDC |
| Voltage Rating: | 500VDC |
| Operating Temperature Range: | -40˚C to +125˚C |
| Material: | Body: Melamine (U.L. Flammability rating of 94 V0)<br>End Caps: Stainless Steel<br>Terminals: Copper Alloy |
| Mounting Torque: | 5-7 Nm M6 (ISO prescription)<br>10 Nm M6 (Max allowed) |
| Refers To: | ISO 8820-8 first edition 2012-08-01 (Type J2) – JASO D622 |

### Ordering Information

| Part Number | Termination | Package Size |
|---|---|---|
| 20EVxxx.ZXBD | M6 Bolt Down | 320 |

### Time-Current Characteristics

| % of Rating | Opening Time Min / Max (s) |
|---|---|
| 110 | 4 hrs / ∞ |
| 200 | 1.0 / 300 |
| 300 | 0.2 / 30 |
| 500 | 0.05 / 1.0 |

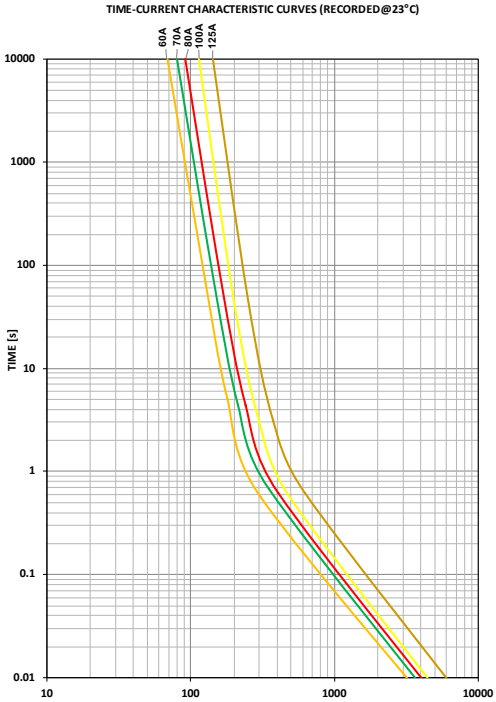
### Ratings

| Part Number | Current Rating (A) | Typ. Voltage Drop (mV) | Max. Voltage Drop Spec at 100% IR (mV) | Cold Resistance (mΩ) | Minimum Melting I²t (A²s) |
|---|---|---|---|---|---|
| 20EV060.ZXBD | 60 (*) | 110 | 200 | 1.4 | 7745 |
| 20EV070.ZXBD | 70 (*) | 115 | 200 | 1.2 | Coming up |
| 20EV080.ZXBD | 80 (*) | 90 | 200 | 0.8 | 16002 |
| 20EV100.ZXBD | 100 (*) | 95 | 200 | 0.62 | 27079 |
| 20EV125.ZXBD | 125 (*) | 95 | 200 | 0.48 | Coming up |

(Average Initial Measurements)

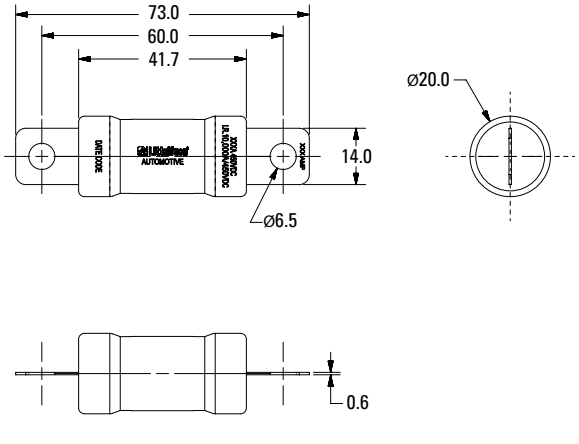
(*) Products in development - please contact Littelfuse® for more details regarding availability timing
Final values for voltage drop, resistance, melting I²t and T/C curves will be generated from PV tests data

### Time-Current Characteristic Curves




### Dimensions

Dimensions in mm

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