#### Fuse Datasheet



#### Description

SHEV fuses employ diffusion pill technology. This enables them to provide predictable timedelayed circuit protection in high-voltage, highcurrent systems. These bolt down HC automotive fuses can be installed in most EVs and hybrid passenger vehicles.

#### **Features & Benefits**

- Ampere stamps on terminals aid identification
- Industry-standard footprint

### **Applications**

EVs

Hybrid passenger vehicles

Refers to ISO 8820-8

#### Additional Information





Resources

Samples

#### See Disclaimer Notice

# **Specifications**

Voltage Rating:	450 V DC
Interrupting Rating:	10 kA @ 450 V DC
Recommended Environmental Temperature:	–40 °C to +125 °C
Terminals Material:	Copper Alloy
Housing Material:	Melamine (U.L. 94 Flammability rating – V0)
End caps Material:	Stainless Steel
Recommended Mounting Torque M6:	6 ±1 Nm (Max. allowed: 10 Nm)
Net Weight per Fuse:	30 g ±5 g
Refers To:	ISO 8820-8 1st ed. 2012-08-01 (Type J2), JASO D622

## **Ordering Information**

Part Number	Current Rating (A)	Termination	Package Size
SHEVxxx.ZXBD	60 A - 125 A *	M6 Bolt Down	320

\* The following ratings: 70 A and 125 A are under development. Please contact Littelfuse® for more details regarding availability timing.



#### Fuse Datasheet

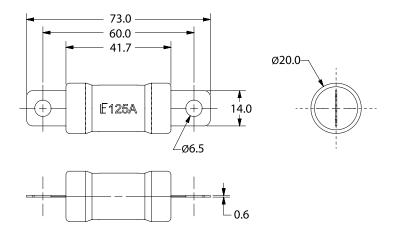
# Ratings

Part Number	Current Rating (A)	Typ. Voltage Drop (mV)	Typ. Voltage Drop at 100% IR (mV)	Typ. Cold Resistance (mΩ)	Typ. l²t (A²s)
SHEV060.ZXBD	60	110	200	1.4	7 750
SHEV070.ZXBD	70 *	115	200	1.2	Coming up
SHEV080.ZXBD	80	90	200	0.8	16 000
SHEV100.ZXBD	100	95	200	0.62	27 100
SHEV125.ZXBD	125 *	95	200	0.48	Coming up

Products in development - please contact Littelfuse® for more details regarding availab .ility timing.
Note 1: Final values for voltage drop, resistance, melting I²t and T/C curves will be generated from P V tests data
Note 2: 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. Please refer to the outline drawing for dimensions and tolerances.

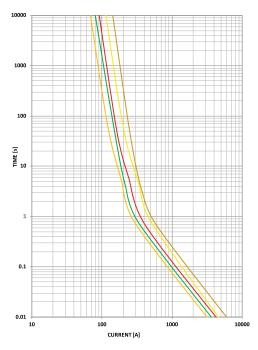




#### Fuse Datasheet

# **SHEV Series** High Voltage Fuses – Rated 450 V DC

### **Time-Current Characteristic**



% of Rating	Opening Time Min. / Max. (s)
110	14 400 /-
200	1 / 300
300	0.2 / 30
500	0.05 /1

 60 A
 70 A
 80 A
 100 A
 125 A

**Note:** Current recommendation may be impacted by the final condition of the application (terminals characteristics, wire size etc..). Please contact Littelfuse<sup>®</sup> for more information.

Disclaimer Notice - Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability of and test each product selected for their own applications. Littlefuse products are not designed for, and may not be used in, all applications. Read complete Disclaimer Notice at https://www.littlefuse.com/legal/disclaimers/product-disclaimer.aspx

