

'Low Voltage Lamp Driver' (LVLD)

The LVLD provides feedback about the charging system of a 12V automotive lead-acid battery. A warning lamp (not included) will illuminate when the system voltage is below the normal rest voltage of a charged battery.

The device includes a precision voltage reference, operational amplifier and protected output driver, all integrated into a small potted box. The device is small (20 x 20 x 15mm) and light enough to be inserted inside a wiring loom or cable tied to it.

Specification

Part number: 102A1

Warning Lamp OFF as voltage rises: $> 12.55V \pm 1\%$

Warning Lamp ON as voltage falls: $< 12.15V \pm 1\%$

Default switch-on state: Warning Lamp ON

Maximum voltage: 24V

Reverse polarity protected: YES (warning lamp will be ON)

Lamp over-current protected: YES (only with correct polarity)

Quiescent current: 6mA (Lamp-ON) / 3mA (Lamp-OFF)

Maximum lamp current: 3A peak, 1A continuous

10-5-2023 (V8)

