

The circuit diagram illustrates a 120V LED driver with a feedback loop. The AC input (L, N) is connected to a fuse F1 (1A/250V) and a diode bridge rectifier BD1 (KEP206). The rectified output is connected to a transformer LF1 (SHORT) and a capacitor CX2 (0.1uF/275Vac). The output of CX2 is connected to a feedback network consisting of resistors R1 (SHORT) and R2 (1K (2012)), and a capacitor CX3 (100nF/630V). The feedback network is connected to the non-inverting input (VCC) of the operational amplifier U1 (DW8533). The inverting input (FB) is connected to the output of the op-amp through a feedback resistor R3 (680K (3216)). The op-amp is configured as a voltage follower. The output of the op-amp is connected to the gate of a MOSFET M1 (7D471). The MOSFET is connected to the primary of a transformer LF2 (SHORT). The secondary of LF2 is connected to a full-bridge rectifier D2 (US1G) and a filter capacitor C4 (100nF/50V). The output of the filter capacitor is connected to the LED load (LED+, LED-). The output voltage is 120V and the output current is 250mA.