

01/06-1

Datasheet and connections

## LKO1000 Constant Current Source 1000 mA

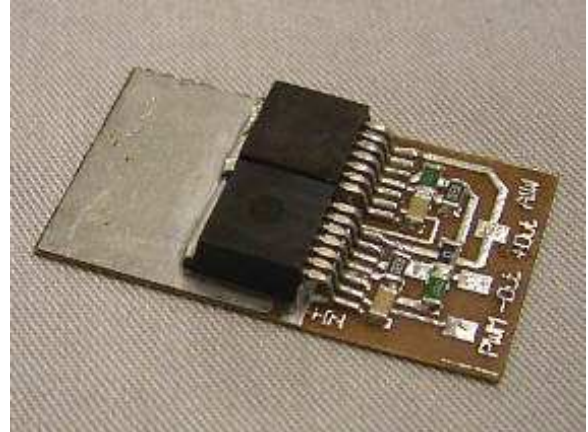
for 3 Watt Luxeon Stars and other 3 Watt High-Power-LEDs  
with external control-possibility -shutdown-



### LKO1000 Low-Drop Low-Cost Power-Constant-Current-Source 1000 mA

For 3 Watt Luxeon Emitters,  
3 Watt Luxeon Stars and other LEDs with 1000 mA

- Power-Constant-Current-Source 1000 mA
- Low Drop
- Low Cost
- 1000 mA constant output
- Input : min. 4,5 volts DC max. 40 volts DC
- Drop: ca. 0,8 volts
- reverse polarity protection
- short circuit proof
- thermal protection
- overload proof
- Dimensions:
  - 23 mm x 40 mm, 4 mm high
- Weight: about. 4 grams
- Shutdown-pin for remote control, dimming etc.



*The difference between input and output voltage may not exceed 3 volts when not cooled. Otherwise the output power will decrease.*

When mounted on a metal surface or heatsink e. g. with a cooltape pad, the difference between input and output voltage may be larger, depending on temperature.

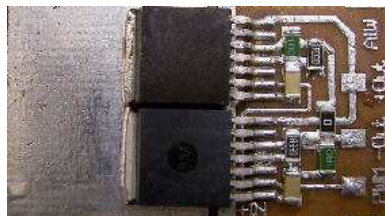
A good thermal management is obtained by a double-sided copper-plated printed-circuit board.

For example, when mounting at room temperature on the case of a PC with cooltape, the input-output-difference may be about 6V.

Desparately, this has influence on efficiency. For applications like this, we recommend using a HKO1000 module.

#### Connections:

The cooling area  
is minus(IN)



- IN

+ Input Voltage (+IN)

+ LED (+OUT)

- LED (-OUT)

PWM-Connection\*,

New:

External control by the  
shutdown-pin.

Max. 40 V DC,  
for dimming, remote-  
control etc.

\* PWM: When operating without ext. control, connect with +!

The cooling area on the circuits back is electrically isolated from the circuit.

**NEVER connect „- LED“ with minus of your power source!**

Other values of output-current in the range from 50 mA to 1000 mA on request.

-date: 01/06 -alterations preserved-

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