



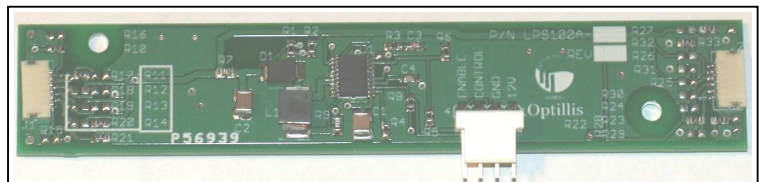
Optillis

**LPS100A**

## **LED Backlight Power Control**

### **Features**

- Low Cost – Constant Current Led Backlight Driver Board
- Form Factor and Control Interface compatible to existing CCFL Driver Boards
- 3 / 4 wire operation
- 87% efficiency
- RoHs
- Extended Temperature Range
- Power on soft start



### **Applications**

- 5.7" Optrex T-55265GD057J-LW-ABN
- 6.5" Optrex T-51750GD065J-LS-AON
- 6.5" Optrex T-55465GD065J-LW-A-AAN
- 8.4" Optrex T-55466D084J-LW-A-AAN
- 8.4" Optrex T-55467D084J-LW-A-AAN
- 10.4" Mitsubishi AA104XD02
- 12.1" Optrex T-55374D121J-LW-A-AAN

### **Specifications**

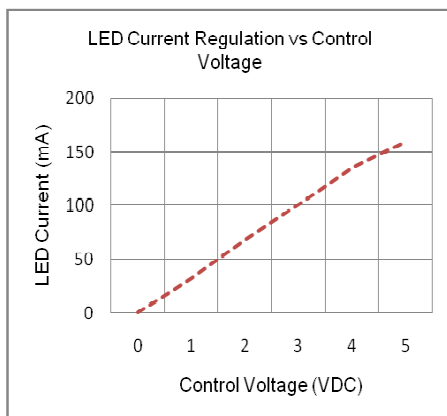
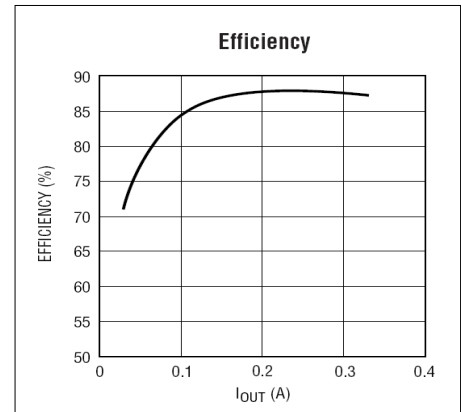
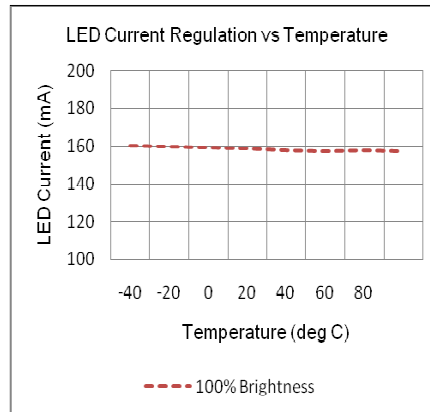
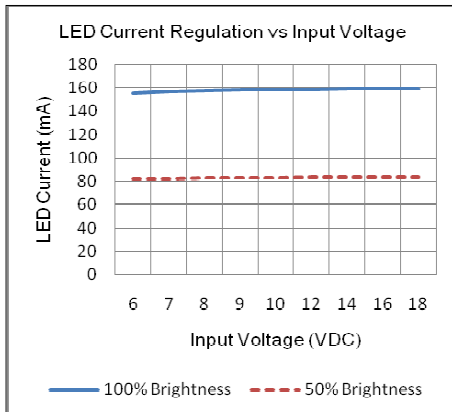
- 6 – 18 VDC input voltage
- Enable Input: 0.3V or less=OFF, 2V or greater=ON. Not Connected defaults ON.
- Brightness Control Input : 0 – 5.0 VDC (0 – 100%)
- -40 to 85 C operating temperature
- Weight 0.4 oz (10g)
- 0.800"W x 4.35"L x 0.4" H
- (2) 0.120" mounting holes
- (2) SM06B-SHLS-TF LED connectors
- (1) 640457-4 Tyco power / control connector

### **Options**

- 5V input voltage
- Custom form factor, connectors

## Electrical Characteristics

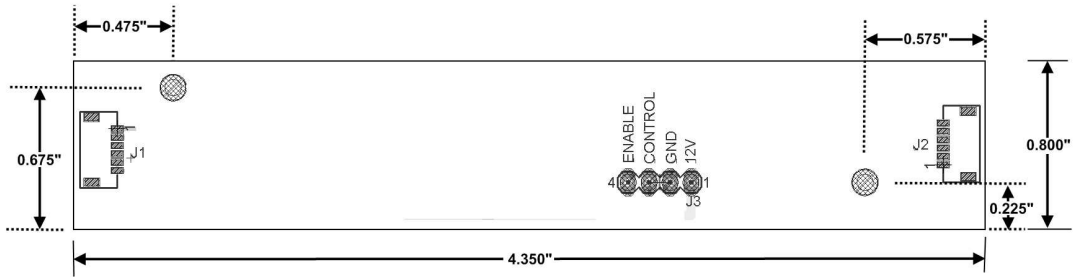
(Data shown for Optrex T-51750GD065J-LS-AON)



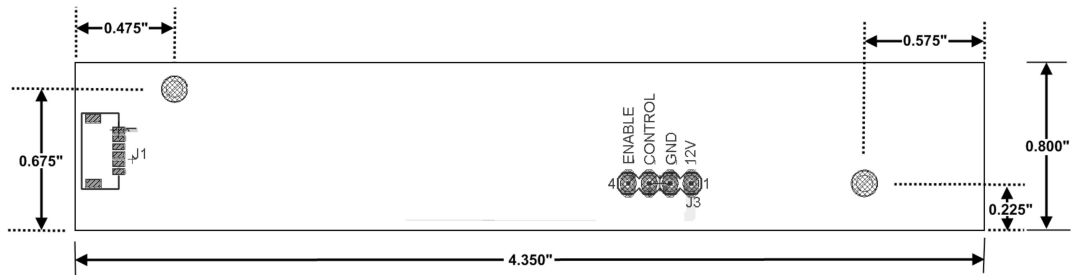
## Mechanical Characteristics

- Power / Control connector – J3
  - Tyco 640457-4. Mating connector Tyco 3-644512-4.
    - Pin 1 – V<sub>in</sub>
    - Pin 2 – GND
    - Pin 3 – V<sub>control</sub>
    - Pin 4 – Enable
- LED connectors – J1, J2
  - JST SM06B-SHLS-TF. Mating connector JST SHLP-06V-S-B.
    - Pins 1 – 6 : Electrical connection dependant on LCD configuration.

- Dimensions / Connector location for P/N LPS100A-1



- Dimensions / Connector location for P/N LPS100A-2,3,4,5,6 (note only 1 connector – J1)



## Part Numbering / Ordering

### LPS100A-xy

x – LCD type

- 1	Optrex T-51750GD065J-LS-AON
- 2	Optrex T-55265GD057J-LW-ABN
- 3	Optrex T-55466D084J-LW-A-AAN Optrex T-55467D084J-LW-A-AAN
- 4	Mitsubishi AA104XD02
- 5	Optrex T-55374D121J-LW-A-AAN
- 6	Optrex T-55465GD065J-LW-A-AAN

y – Enable Control Voltage

- Blank	Connection not required. Default ON with internal pullup to Vin. Can be disabled with GND connection.
- 1	2 VDC or greater = Enabled. 1VDC or less = Disabled.