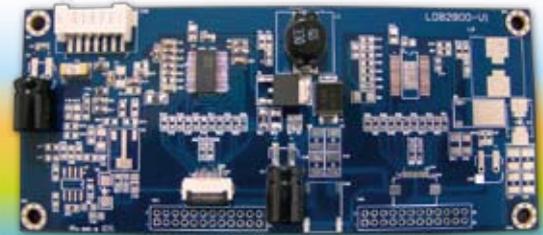


LED Controller Board - LDB-2800 Series

The LDB-2800 series is a high efficiency boost DC/DC controller board that drives a number of LEDs connected in a series/parallel configuration. The built-in Pulse Width Modulation (PWM) signal for the dimming control function allows users to set LED brightness smoothly. The LDB-2800 series also features a fast LED current rise/fall time to achieve a wide dimming range and minimizes LED color distortion during the dimming mode and power protection feature enables to protect LED module from damage by over current or over voltage.



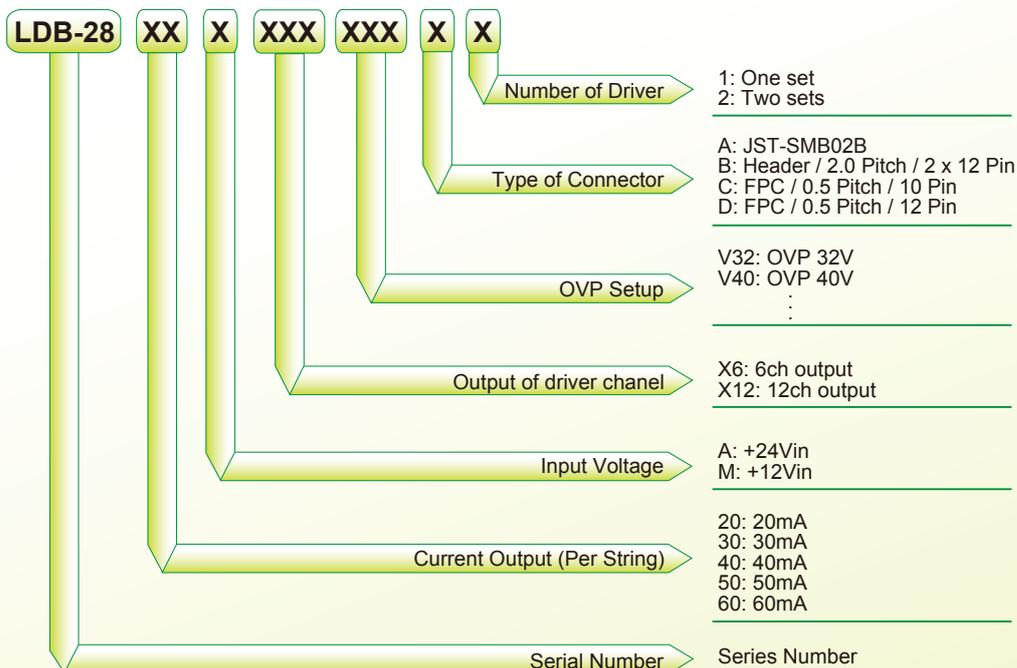
Features

- High efficiency DC/DC power converter for LED backlight application supports a wide range of LCD panels including AUO, CMO, Samsung, LG, NEC, IDTech, Sharp, Fujitsu, Hannstar, CPT, Toshiba, Optrex, and Mitsubishi...etc.
- Built-in the Pulse Width Modulation (PWM) dimming control, (External DC level of 0V(off) to 5V(full-on))
- LED constant current circuit
- External power On/Off control
- Output short circuit protection
- Output over-voltage protection
- Soft start

Operating Condition

Item	Min.	Tye.	Max.	Units
Input Voltage	11.5	12	25	Volt
Over voltage Protection(OVP)	-	-	40	Volt
Controll Voltage (On)	2	5	7	Volt
Dimming Control	0	-	5	Volt
Efficiency	85	88	90	%
Operating Temperature	-30	25	80	°C
Storage Temperature	-50	25	125	°C

General Information of Model Number



Example

LDB-2840MX12B1
 Series Number: LDB-28 series
 Current Output (Per String): 40mA
 Input Voltage: +12Vin
 Output of driver channel: 12ch output
 OVP Setup: 40V
 Type of Connector: Header / 2.0 Pitch / 2 x 12 Pin
 Number of Driver: One set

Applications

- Mitsubishi-AA121XL01
- Mitsubishi-AA150XS01