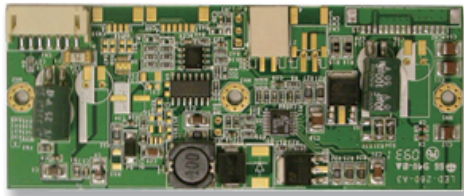


## LED-252840



### Features

- High efficiency
- Low profile and compact design
- Constant LED current
- PWM/Or DC Voltage Dimming Control
- Short circuit and overload protection
- External power On/Off control

### Overview

The LED-252840 driving board is designed to drive LED backlight module. It is a constant frequency and current mode controller especially applied for LED arrays. In constant current LED applications, the LED-252840 provides an especially wide PWM dimming range and DC voltage dimming control feature which allow users to adjust brightness smoothly. Additional power protection feature is able to protect LED module from damage by overcurrent and overvoltage.

### Mechanical Characteristics

Dimension (L x W x H): 100mm x 40mm x 10.5mm  
Weight: 24g

### LCD Application

LCD Model: Prime View-PD080SL3

### Operating Condition

Item	Symbol	Condition	Min.	Max.	Unit
Input Voltage	Vin		3.5	15	V
Operating Temperature	Top	Ha ≤ 90%RH	-20	85	°C
Storage Temperature	Tstg	Ha ≤ 95%RH	-30	100	°C
Operating Humidity	Hop	Ta=0 ~ 55°C	20	90	%RH
Storage Humidity	Hstg	Ta=20 ~ 80°C	-	95	%RH

### Operating Characteristics

Unless otherwise noted Vin=5 Volts DC and T=25°C

Item	Symbol	Min.	Typ.	Max.	Unit
Input Voltage	Vin	3.3	12	15	V
Output Voltage	V-led	-	11	-	V
Dimming Ratio	-	-	3000:1	-	-
Output Current	I-out	-	840	-	mA
PWM Control Duty Ratio	-	10	-	100	%
PWM Control Frequency	-	180	-	25K	Hz
PWM Swing Voltage	-	2.0	-	5.5	V
DC Voltage Dimming Control	-	0	-	5	V

### (CN1) Input Connector

Pin No.	Symbol	Description
1	BKLT	VDD
2	BKLT	VDD
3	GND	Ground
4	GND	Ground
5	ENA	Enable
6	Brightness	PWM/DC Voltage
7	AR	NC

### (CN8) Output Connector

Pin No.	Symbol	Description
1	Vout	Anode
2	LGND	Cathod

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