



# **Specifications and Applications**

## **LED Driving Board**

### **LED-265235**

Product Version: V3.01S



**RoHS Compliance**

**Issue Date: 24th-May-2010**

**Document Version: 1.1S**

LED-265235

## Revision History

[illegible]

**<Remarks>**

## 1. General

The LED-265235 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-265235 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.

## 2. Features

High Dimming Ratio(3000:1)  
Low Profile and Compact Design  
Constant LED Current( 235mA)  
PWM/Or DC Voltage Dimming Control  
Short Circuit and Overload Protection  
External Power On/Off Control

## 3. Mechanical Characteristics

	L	W	H
Dimension	100mm	40mm	10.5mm
Weight	MAX. 24g		

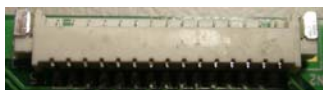
## 4. Connectors

Conn. No.	Brand	Parts No
CN1	JST	S7B-PH-K
CN2	Molex	53261-15

## 5. Pin Number

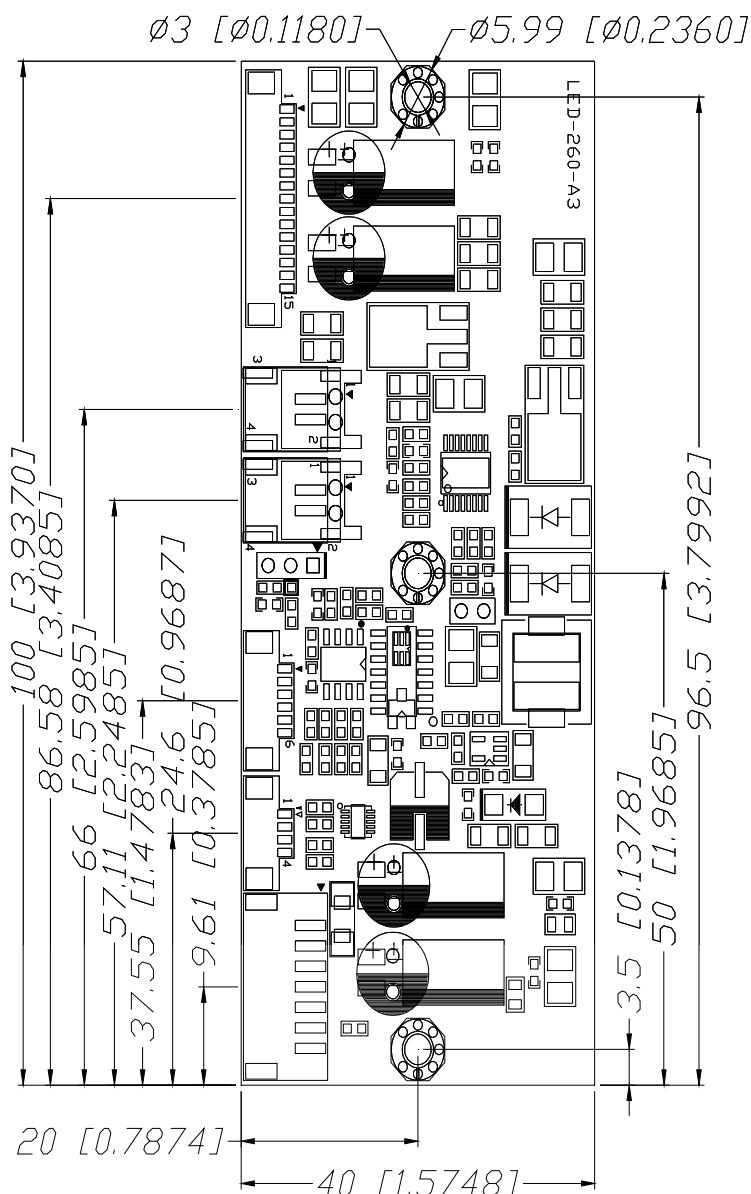


CN1 (pin1)



CN2(pin1)

## Mechanical Specifications



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Max.H=10.5mm

6. LCD Application		
LCD Model	LCD Model	Remark
AUO G150XG01 V2		

7. Operating Conditions						
Item	Symbol	Conditions	MIN	MAX	Unit	Remark
Input Voltage	Vin		3.3	15	V	
Operating Temperature	Top	Ha $\leq$ 90%RH	-20	85	°C	
Storage Temperature	Tstg	Ha $\leq$ 95%RH	-30	100	°C	
Operating Humidity	Hop	Ta=0~55°C	20	90	%RH	
Storage Humidity	Hstg	Ta=20~80°C	-	95	%RH	

8. Operating Characteristics						
Unless otherwise noted Vin=12 Volts DC and T=25°C						
Item	Symbol	MIN	TYP	MAX	Unit	Remark
Input Voltage	Vin	3.3	12	15	V	
Output Voltage	V-led	-	28.8	-	V	
Dimming Ratio			3000:1			
Output Current	I-out	-	235	-	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	0V: High Brightness +5V: Low Brightness

9. Connector pin description

9-1. (CN1) Input Connector			
Pin No.	Symbol	Description	Remark
1	BKLT	VDD	
2	BKLT	VDD	
3	GND	Ground	
4	GND	Ground	
5	ENA	Enable (ON=+5V ; OFF=0V)	
6	Brightness	PWM/DC Voltage	
7	AR	NC	

9-2. (CN2) Output Connector			
Pin No.	Symbol	Description	Remark
1	LEDIN1	Anode1	
2	LEDIN2	Anode2	
3	LEDIN3	Anode3	
4	LEDIN4	Anode4	
5	LEDIN5	Anode5	
6	LEDIN6	Anode6	
7	LEDO1	Cathod1	
8	LEDO2	Cathod2	
9	LEDO3	Cathod3	
10	LEDO4	Cathod4	
11	LEDO5	Cathod5	
12	LEDO6	Cathod6	
13	ENA	Enable	
14	Brightness	Dimming Control	
15	VCC	VCC	



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