



LITEMAX LID08A02

LED Driving Board

(1st Edition 6/6/2008)

All information is subject to change without notice.

Approved by	Checked by	Prepared by
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General

LED Application

This specification is applied to LED converter unit for SP0835 LED backlight

Operating Characteristics

Item	Symbol	Conditions	MIN.	TYP.	MAX.	Unit	Remark
Input Voltage	Vin		10.0	12.0	14.0	V	
Input Current (Low Brightness)	IinL	VIN=12V,Vadj=5V	0.0	-----	-----	mA	
Input Current (High Brightness)	IinH	VIN=12V,Vadj=0V	580	595	610	mA	
LED Current (Low Brightness)	IoutL	VIN=12V,Vadj=5V	0.0	-----	-----	Arms	
LED Current (High Brightness)	IoutH	VIN=12V,Vadj=0V	223	297	334	mA	
Working Frequency	Freq	VIN=12V,Vadj=0V	120	125	130	KHZ	
PWM Frequency	Freq	VIN=12V	180	200	220	HZ	
Brightness Control	Vadj	Connection of Voltage	0.5	-----	4.8	V	
ON/OFF Control	Von/off	Normal Operation	2	-----	5	V	
Output Voltage	Vout	VIN=12V,Vadj=0V	21.464	21.775	22.177	V	
Efficiency	η	VIN=12V,Vadj=0V	82.53	90.58	86.73	%	

Environment

Operation Temperature	-20 ~ 70°C
Operation Humidity	% Max.RH
Storage Temperature	-40 ~ 85°C
Storage Humidity	% Max.RH

Connector Socket

Input Connector: LJ1 (JST B2B-PH-K-S or Compatible)

:

PIN No	Symbol	Description
1	Vin	DC+12V
2	Vin	DC+12V
3	Vin	DC+12V
4	GND	Ground
5	GND	Ground
6	GND	Ground
7	Brightness	Brightness Control 5V~0V
8	Control	ON/OFF Control 0.8V(OFF) 2~5V(ON)

Output Connector: LJ2, LJ3 (JST S2B-EH or Compatible)

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PIN NO	Symbol	Description
1	Output	LED High Voltage(+)
2	Output	LED Low Voltage (-)

Mechanical Characteristics

Dimension: 124mm*50mm*15mm

INPUT CONNECTOR
 LJ1:
 PIN1:VIN
 PIN2:VIN
 PIN3:VIN
 PIN4:GND
 PIN5:GND
 PIN6:GND
 PIN7:BRIGHTNESS
 PIN8:ON/OFF

