

Preliminary Specifications

Final Specifications

Title	(DC/DC) LED Driving Board
Model Name	D2626514G1PA
Version	Rev.1

<p>Customer</p> <hr style="border: 0; border-top: 1px solid black; margin: 10px 0;"/>	
<p>Approved by</p> <hr style="border: 0; border-top: 1px solid black; margin: 10px 0;"/>	<p>Date</p> <hr style="border: 0; border-top: 1px solid black; margin: 10px 0;"/>
<p>Notice : This Specification is subject to change without notice.</p>	

<p>Approved By</p>	<p>Prepared By</p>



## Description

The **DX26 series** is a 4-channel current controller which combines with a boost driver board.

It's an ideal solution for driving high power LED backlights.

The DX26 series features 4 individual current regulator channels to give accurate driving current for each LED string. It can drive a number of LEDs in series/parallel configuration.

The other features include LED short and open protection, cycle by cycle current limit, and thermal shutdown.

### Applicable

Input voltage: +11V~+25V.

Output LED voltage: +18V~+60V. (@Vin=12V)

1~4 constant-current output channels.

### Feature

Wide input voltage range.

External PWM dimming control. (PWM Input frequency Range 180Hz ~ 30kHz)

External power On/Off control.

Output LED String Open Protection. (OVP)

Output LED String Short Protection.

Output LED String Over Current Protection.

Thermal protection function protects IC from over temperature damage.

## Operating Condition

Item	Min.	Typ.	Max.	Units
Input Voltage	11	12	25	Volt
Input Current	-	TBD	-	A
Output Voltage	18	~	60	Volt
Output Current(rms)	-10%	260 (65mA * 4string)	+10%	mA
Over voltage Protection (OVP)	-	-	60	Volt
Controll Voltage (On)	2	5	7	Volt
PWM Dimming Control	180	1000	30,000	Hz
Efficiency	85	88	90	%
Operating Temperature	-20	25	60	°C
Storage Temperature	-50	25	125	°C

## I/O Connector

### Input connector

CN1\_ (JST-S6B-2.0mm) or compatible

Pin No.	Symbol	Description
CN1-1	VIN	DC input
CN1-2	VIN	DC input
CN1-3	ON/OFF	0.7V(off) , 2V~5V(on)
CN1-4	PWM Dimming	1000HZ ( recommend)
CN1-5	GND	Ground
CN1-6	GND	Ground

### Output connector

CN6\_ (JST-S6B-2.0mm) or compatible

Pin No.	Symbol
CN6-1	IRLED (current out 65mA)
CN6-2	IRLED (current out 65mA)
CN6-3	VLED (voltage in)
CN6-4	VLED (voltage in)
CN6-5	IRLED (current out 65mA)
CN6-6	IRLED (current out 65mA)

## Mechanical Specification

Dimension (L x W x H): 80mm x 35mm x 10mm

