



Product Specification

(DC/DC) LED Driving Board

D26 series

Model Name: D26212014G1PA



Customer	Approved by	Date

Designed by	Prepared by	Authorized by

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Description

D26 series is a high voltage Boost driver with 1~4 channels adjustable constant current regulators for LED backlight applications.

The D26 series eliminates the audio noise by maintaining constant LED current regulation during PWM dimming. It could output the lowest dropout voltage among used channels to Boost Driver in order to maintain the output voltage in optimal level.

An OVP circuit is built for open-loop protection when any string becomes open.

Analog dimming control(option), built in DC to PWM (Pulse Width Modulation) module, signal for the dimming control function allows users to set LED brightness smoothly.

Applicable

Input voltage: +11V~+32V.

Output LED voltage:+18V~+50V.(@Vin=12V)

1~4 constant-current output channels.

Feature

Wide input voltage range.

External PWM dimming control.(PWM Input frequency Range 240Hz ~ 30kHz)

External DC (0V ~ +3.3V) dimming control.(Option).

External power On/Off control.

Output LED String Open Protection.

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	32	Volt
Input Current	-	TBD	-	A
Output Voltage	18	~	50	Volt
Output Current(rms)	-10%	480 (120mA * 4string)	+10%	mA
Over voltage Protection (OVP)	-	-	60	Volt
Control Voltage (On)	2	5	7	Volt
PWM Dimming Control	240	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 power input
CN1-2	VIN	DC power input
CN1-3	ON/OFF	0.7V(off) , 2V~5V(on)
CN1-4	PWM Dimming	0%(3mA)~100%(120mA)
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 120mA)
CN6-2	IRLED (current out 120mA)
CN6-3	VLED (voltage in)
CN6-4	VLED (voltage in)
CN6-5	IRLED (current out 120mA)
CN6-6	IRLED (current out 120mA)

Mechanical Specification

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

