

Step-up DC/DC Converter —Backlight Driver

General Description

The PN2120 Series is a fixed frequency, constant current step-up DC/DC converter ideal for driving LEDs used in high-definition screen backlight LED driver etc. The highest output voltage is 24V, the input voltage of 3.6V can drive 3 series, 17 in parallel, a total of 51 LED. The internal circuit integrated overvoltage protection circuit and temperature protection circuit, and the brightness of the leds can be controlled with a PWM signal. The internal circuit integrates a large pipes of 0.2 ohms.

Features

- Input voltage range 3.0V—6.0V
- Input voltage range up to 24V
- Oscillation frequency 1.2MHz±20%
- Efficiency 88%

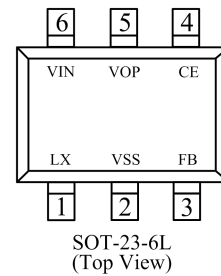
- Control mode PWM control
- Stand-by Current ISTB=1.0uA(MAX)
- Load capacitor 10uF,ceramic

Applications

- HD screen LED driver

Package

- SOT-23-6L



Ordering Information

PN2120 ①②③④⑤⑥

Item	Symbol	Function
①	B	Denotes Lx Over-voltage Limit: Yes Denotes Oscillation Frequency:1MHZ
②③④	010-149	Denotes FB Voltage e.g. ②=0 ③=2 ④=0 0.20V ②=1 ③=2 ④=3 1.23V
⑤	M	Denotes Package Type : SOT-23-6L
⑥	R	Embossed Tape :Standard Feed
	L	Embossed Tape :Reverse Feed