

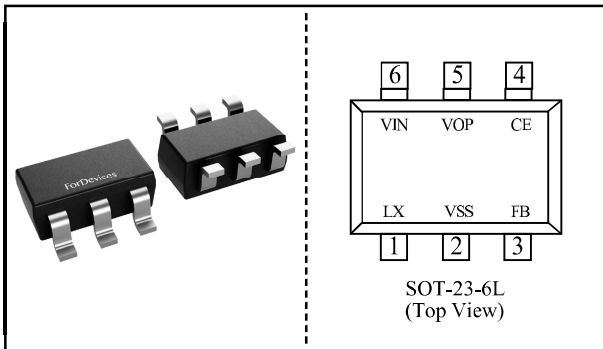
## DC-DC Boost Converter 1.5MHz Up to 28.0V --Backlight Driver

### General Description

The FH2115 Series is a fixed frequency, constant current step-up DC-DC converter ideal for driving LEDs used in backlighting applications on cellular phones, PDAs and digital cameras etc. Output voltage of up to 28V can be derived, and from a 3.2V input four white LED's can be driven in series or alternatively, using a 3.0V input, a network of six LEDs may be driven. Luminance of the LED's is controlled by changing the duty cycle of a PWM signal applied to the CE pin.

### Package

- SOT-23-6L



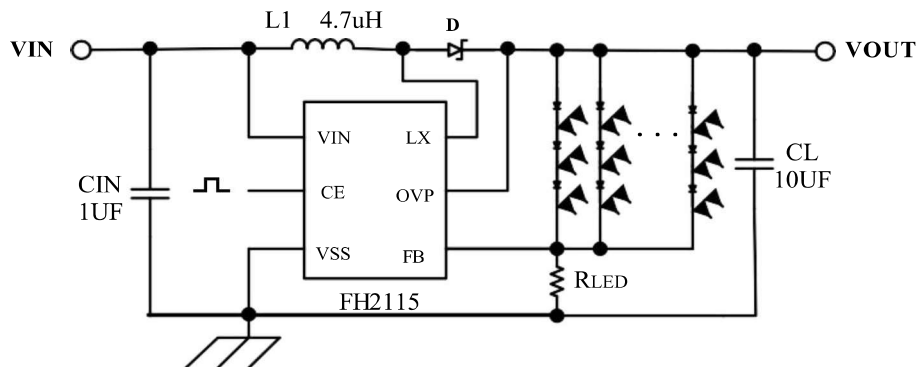
### Features

- Input voltage range: **2.5V~6.0V**
- Output voltage range: **Up to 28.0V**
- Oscillation frequency: **1.5MHz ±20%**
- Efficiency: **88%**  
(When driving 3 white LEDs in series VIN=3.6V ILED=20mA)
- Control: PWM control
- Stand-by Current: ISTB=1.0uA(MAX)
- Load capacitor: 10uF, ceramic
- LX limit Current: 1000mA

### Applications

- PDAs
- Digital still cameras
- For White LED Drivers
- Mobil phones, PHS

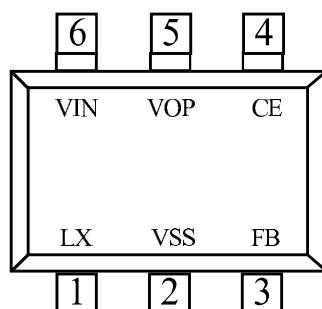
### Typical Application Circuit



#### Caution:

The value of the resistance named RLED:  $R_{LED} = V_{FB} / I_{LED}$ ;  $V_{FB}$  is the voltage of the FB pin;  $I_{LED}$  is the current of LED.

## ■ Pin Description

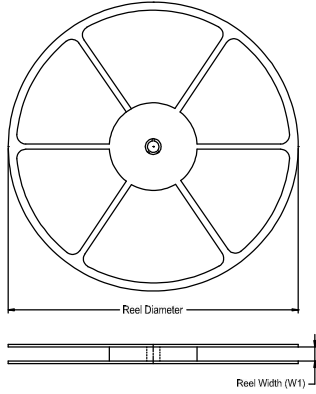


SOT-23-6L  
(Top View)

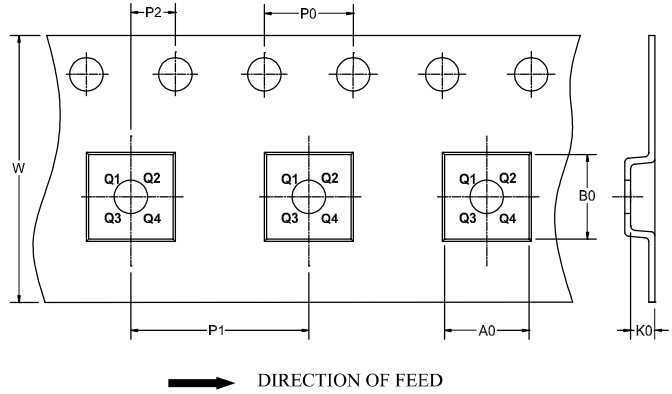
Pin Number	Pin Name	Function
1	LX	SWITCH
2	VSS	Ground
3	FB	Voltage Feedback
4	CE	Chip Enable
5	OVP	Over voltage protect
6	VIN	Power Input

## TAPE AND REEL INFORMATION

### REEL DIMENSIONS



### TAPE DIMENSIONS



NOTE: The picture is only for reference. Please make the object as the standard.

### KEY PARAMETER LIST OF TAPE AND REEL

Package Type	Reel Diameter	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P0 (mm)	P1 (mm)	P2 (mm)	W (mm)	Pin1 Quadrant
SOT-23-6	7"	9.5	3.17	3.23	1.37	4.0	4.0	2.0	8.0	Q3

## Ordering Information

Part Number	Denotes	Frequency	Package	Marking	SPQ
FH2115M6	FB Voltage: 0.25V ±0.01V	1.5MHz	Type : SOT-23-6L	Z***	3000PCS

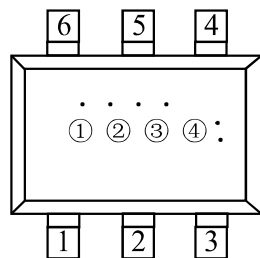
Note:

\* Tape Reel package.

\* The device surface print may change during the production process, and we will not state separately if the electrical parameters of the chip are not involved.

## Marking Rule

- SOT-23-6L



SOT-23-6L  
(Top View)

Update by May. 2017