



## Product Overview

### BCT3511S/BCT3611S

#### DC/DC Controller for 1 Watt White LED Lighting

#### General Description

The BCT3511S/BCT3611S is a constant frequency charge pump DC/DC Converter designed for driving 1 watt white LED in lighting application.

Part Number	Input Voltage	Output current	Package
BCT3511S (step-up)	1.8V ~ 3.6V	Max 350mA	SO14
BCT3611S	2.2V ~ 4.3V	Max 450mA	SO8-PP

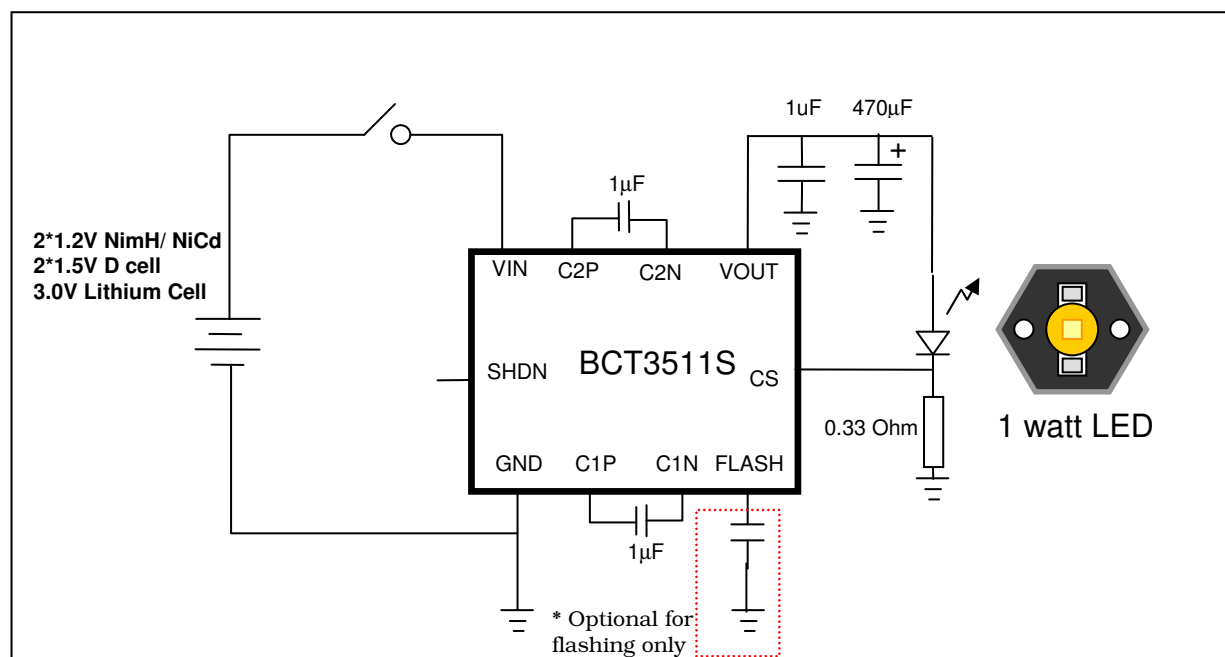
#### Features

- On chip DC/DC converter
- Wide input voltage range, high output current
- Enter flash mode without hardware switch:  
Flash mode is enabled by power ON
- Internal Thermal Protection Circuit for extra safety
- Wide operation temperature  
In torch application:  $-20^{\circ}\text{C}$  to  $70^{\circ}\text{C}$
- Current sensing and controlled by external resistor at pin CS
- MCU on/off control pin SHDN

#### Applications

- White LED Torch / Head Lamp
- DC LED lighting
- Emergency Lighting

#### Typical Application Circuit



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