

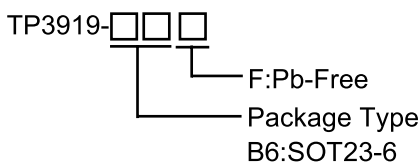
## No Schottky , High Performance, Constant Current Switching Regulator For 8PCS White LED

### General Description

The TP3919 is a 1.2MHz PWM boost switching regulator designed for constant-current white LED driver applications. The TP3919 can drive a string of up to 8 white LEDs from a 3.3V in series, ensuring uniform brightness and eliminating several ballast resistors. The TP3919 implements a constant frequency 1.2MHz PWM control scheme. The high frequency PWM operational so saves board space by reducing external component sizes. To improve efficiency, the feedback voltage is set to 200mV, which reduces the power dissipation in the current setting resistor.

Highly integration and internal compensation network minimizes as 3 external component counts. Optimized operation frequency can meet the requirement of small LC filters value and low operation current with high efficiency.

### Ordering Information



### Marking information

For marking information, contact our sales representative directly or through a Tpmicro distributor located in your area.

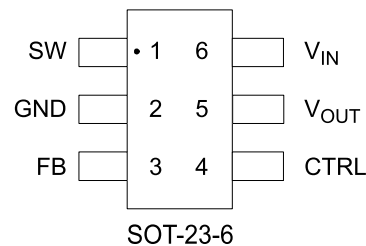
### Features

- Built-in Schottky Diode
- High Efficiency: 86%
- 1.2MHz Fixed-Frequency PWM Operation
- Maximum Output Voltage up to 28V
- Operating Range : 2.7V to 16V
- Shutdown Supply Current:<1uA
- Available in SOT23-6 Package
- Built-in Over Voltage Protection
- Minimize the External Component
- RoHS Compliant and 100% Lead (Pb)-Free

### Applications

- WLED Backlight driver
- OLED Backlight driver
- PDA / DSC
- Camera Flash WLED driver

### Pin Configurations



### Functional pin description

Pin Name	SOT-23-6	Pin Function
SW	1	Switch Pin. Connect this Pin to inductor and catch diode. Minimize the track area to reduce EMI.
GND	2	Ground Pin
FB	3	Feedback Reference Voltage Pin. Series connect a resistor between WLED and ground as a current sense. Sense the current feedback voltage to set the current rating.
CTRL	4	Chip Enable (Active High) and dimming Control pin.
OUT	5	Output Pin. Connect to output capacitor and LEDs. Minimize trace between this
VIN	6	Supply Input Voltage Pin. Bypass 1uF X5R or X7R capacitor to GND to reduce the input noise.