深圳市科发鑫电子有限公司 Http://www.szkfx.com KF9930

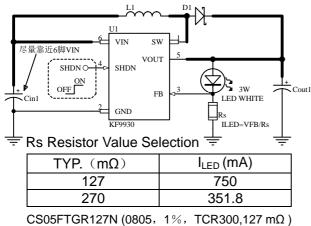
3W High Power White LED

General Description:

The KF9930 is a set-up DC-DC converter that delivers a regulated output current. The device switches at a 1MHz constant frequency, allowing for the use of small value external inductor and ceramic capacitors.

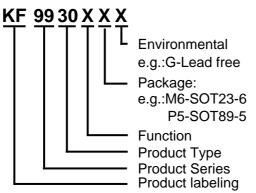
The KF9930 is targeted to be used for driving loads up to 1A from a two-cell alkaline battery. The LED current can be programmed by the external current sense resistor, Rs, connected between the feedback pin (FB) and ground. A low 95mV feedback voltage reduces the power loss in the Rs for better efficiency. During the shutdown mode, the feedback resistor Rs and the load are completely disconnected and the current consumption is reduced to less than 1uA.

Typical Application:



CS05FTGR127N (0805, 1%, TCR300,127 m Ω) CS05FTGR270 (0805, 1%, TCR300,270 m Ω)

Selection Guide



Precautions:

KF9930 is only applicable to two battery-driven 1W or 3W white LED, KF9930 A a battery can drive 1W or 3W white LED.

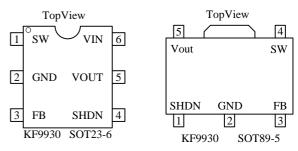
Features:

- LED Power Efficiency: up to 90%
- Current Accuracy: ±10%
- Low Start-Up Voltage: 0.9V(I_{LED}=270mA)
- Low Hold Voltage:0.75V(I_{LED}=200mA)
- 1MHz Switching Frequency
- Uses small, Low Profile External Components
- Low RDS(ON) : 100mΩ (TYP.)
- Open LED Protection
- Over Temperature Protection
- Packages: SOT-23-6,SOT89-5
- Pb-Free Package

Applications:

- White LED Torch (Flashlight)
- White LED Camera Flash
- DSC(Digital Still Camera)Flash
- Cellular Camera Phone Flash
- PDA Camera Flash
- Camcorder Torch(Flashlight) Lamp

Pin Configuration& Marking Information:



Pin information:

Pin Number		Name	Function
SOT23-6	SOT89-5	Name	i unction
1	4	SW	Switch
2	2	GND	Ground
3	3	FB	Feedback
4	1	SHDN	Shut Down
5	5	V _{OUT}	Output
6	/	V _{IN}	Input

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