

YX8233

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Triple Function Flashlight LED Driver IC

OVERVIEW

The YX8233 is a triple-function flashlight LED driver IC in an extremely small SOT23-3 package that requires only one capacitor, which saves both PCB space and system cost. The YX8233 can drive 3-5W LEDs with three dry batteries or one lithium battery. YX8233 can change the output mode by switching off and on, which can realize the brightness adjustment and blinking function. The YX8233A uses a lead-free package.

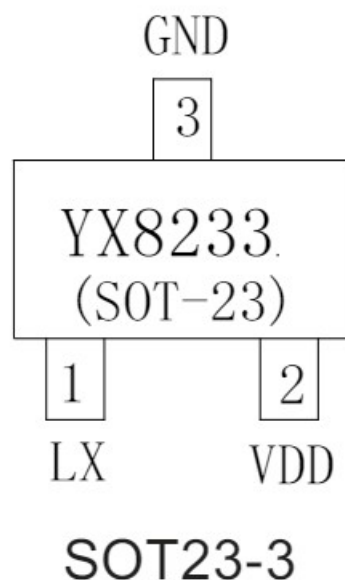
FEATURES

- 3 cycle modes: full brightness, 25% brightness, strobe
- Strobe frequency is 8HZ (TYP)
- 3 modes are adjustable by switching off/on
- Operating voltage: 2.5V to 5V
- Efficiency is up to 92%.

Applications

LED drivers for flashlights/headlamps, etc.

Package Diagram



Pinout Information

SOT23-3	Pin Name	Pin Description
3	GND	Ground
2	VDD	Power
1	LX	LED Outputs

Typical Application Diagram

Note: The three modes are realized by the on-off switch SW.

1. Three modes of conversion is realized by switching SW

2. Adjust the resistance of the resistor R can be adjusted to the current on the LED resistor resistance the smaller the current the greater the choice of resistor, please note that the current size to meet the requirements of the power selection of the resistor, otherwise the electricity will burn out the resistor or IC.

3. Drive the maximum flow of 1.4A

