

PIR Controller IC for LED Lamp Specification

GENERAL DESCRIPTION

The PIR0003 IC is a CMOS chip designed to PIR controller IC for LED lamp. The chip built-in regulator provides stable power. The chip is equipped with amplifiers, comparator, timer, control circuits, system oscillator, and output timing oscillator. Its PIR sensor detects infrared power variation induced by the motion of a human body and transforms it to a voltage variation. If PIR output voltage variation conforms to the criteria, then the lamp LED is turned on with an adjustable duration.

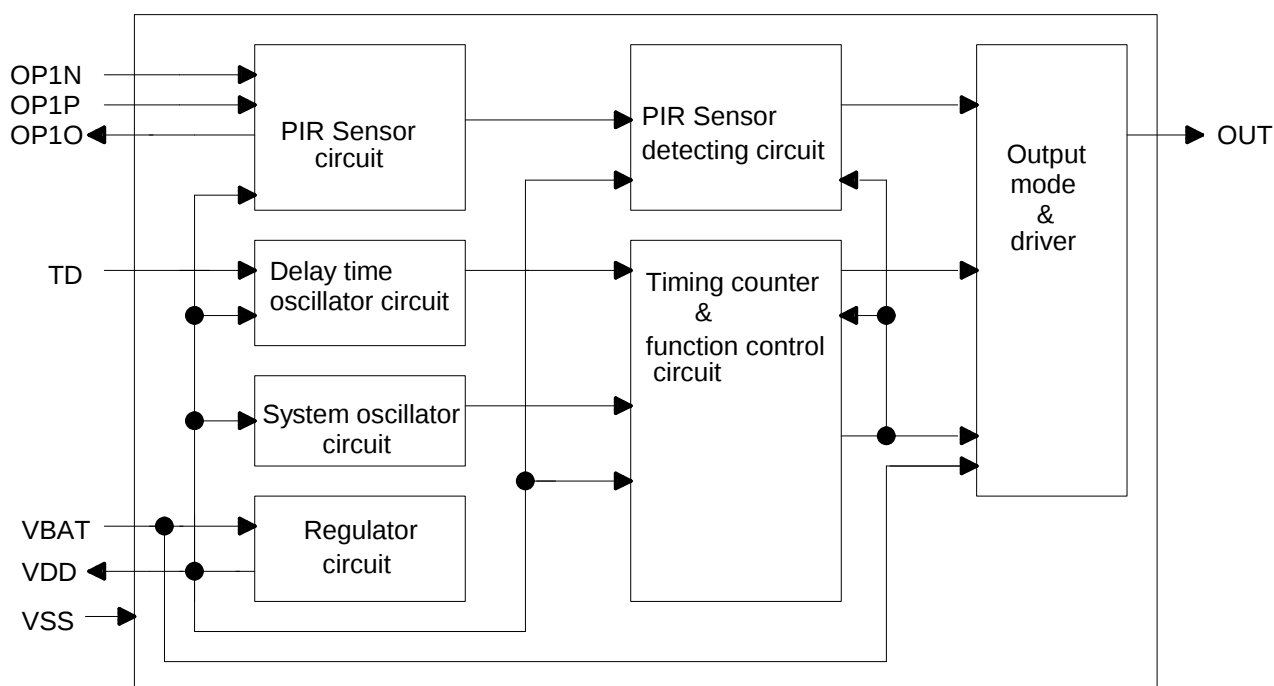
FEATURES

- Operating voltage 3.6V~5.5V, Built-in regulator 3.0V±0.36V .
- Built-in 16Khz oscillator for system clock.
- Operating current @VBAT=4.5V, no load standby current< 20uA
- Provide **Turn_on_delay_time** depend on TD pin RC timer 3 sec ~ 110 sec.
- After power-on have typical 1 sec stable time and 16 sec warm up time after stable time
The warm up time will recount when **PIR active**.
- When lamp turn on change to turn off, then disable PIR 1sec

APPLICATION

- Wide consumer products

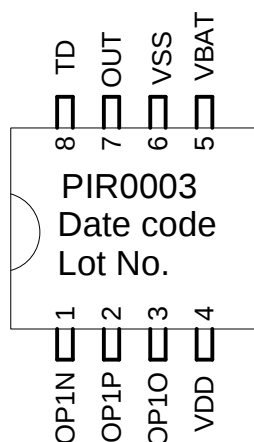
BLOCK DIAGRAM



PACKAGE LIST

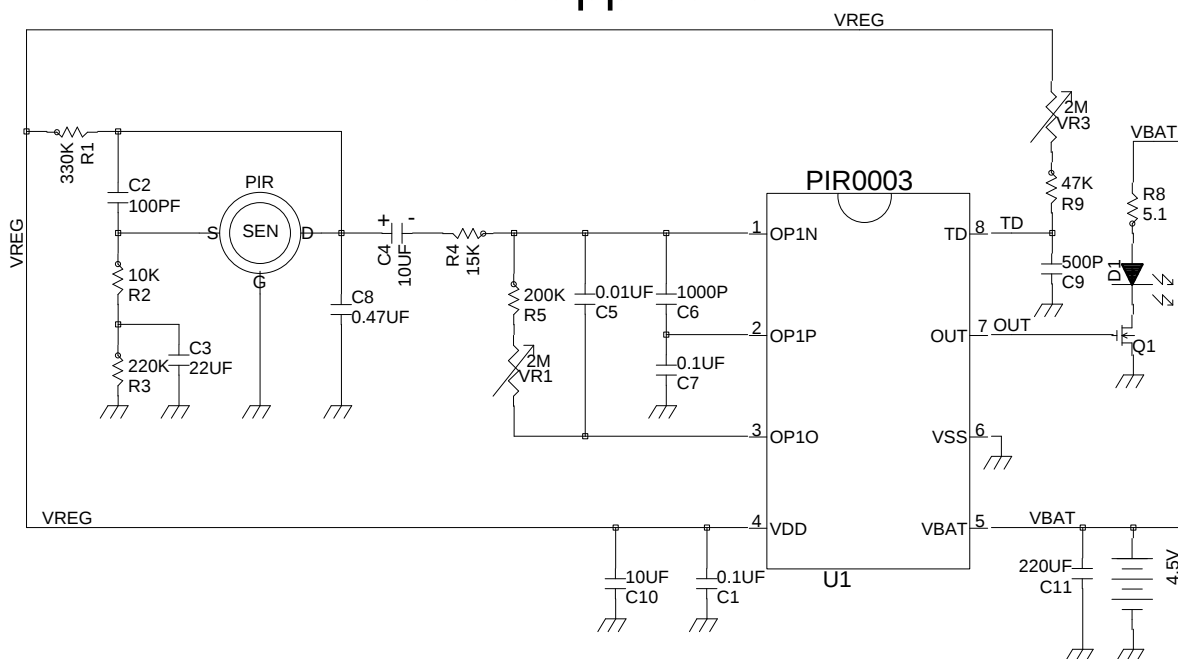
PIR0003A : DIP 8 pin

PIR0003B : SOP 8 pin



APPLICATION CIRCUIT

PIR0003 application



ORDER INFORMATION

A: Package form:

PIR0003A : DIP 8 pin

PIR0003B : SOP 8 pin

REVISE HISTORY

1. 2011/06/21

-Original version : V_1.0