Product Overview

NCS36000: Passive Infrared Detector Controller (PIR)

For complete documentation, see the data sheet.

The NCS36000 is a fully integrated mixed-signal CMOS device designed for low-cost passive infrared controlling applications. The device integrates two low-noise amplifiers and a LDO regulator to drive the sensor. The output of the amplifiers goes to a window comparator that uses internal voltage references from the regulator. The digital control circuit processes the output from the window comparator and provides the output to the OUT and LED pin.

Features
- Integrated 2-stage amplifier
- Internal LDO to drive sensor
- Internal oscillator with external RC
- Direct drive of LED and OUT
- Single or dual pulse detection

Benefits
- Reduces part count
- Improves noise performance
- Allows timing control of device
- Device can drive LED or pin of external microcontroller

Applications
- Automatic lighting
- Automation of doors
- Motion triggered events

End Products
- Residential and commercial lighting
- Animal photography

Application Diagram

For more information please contact your local sales support at www.onsemi.com.

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