

## Product Overview

### LV0104CS: Ambient Light Sensor, I<sup>2</sup>C Interface

For complete documentation, see the data sheet.

LV0104CS is a photo IC for ambient light sensor which has the characteristics of spectral response similar to that of human eyes. It is suitable for the applications like mobile phone (for Digital-TV, One-segment), LCD-TV, laptop computer, PDA, DSC and Camcorder.

#### Features

- Smallest OD-CSP package in the world(1.08mm x 1.08mm thickness: 0.6mm)
- Superior spectrum sensitivity characteristics
- 16-bit digital output for CODEC by I2C serial bus
- Low consumption current and Sleep mode function

#### Benefits

- Space saving
- It resemble human eyesight sensitivity
- It can match to CODEC sensitivity by amplifier's gain adjustment
- Power saving

#### Applications

- Ambient Light Sensor

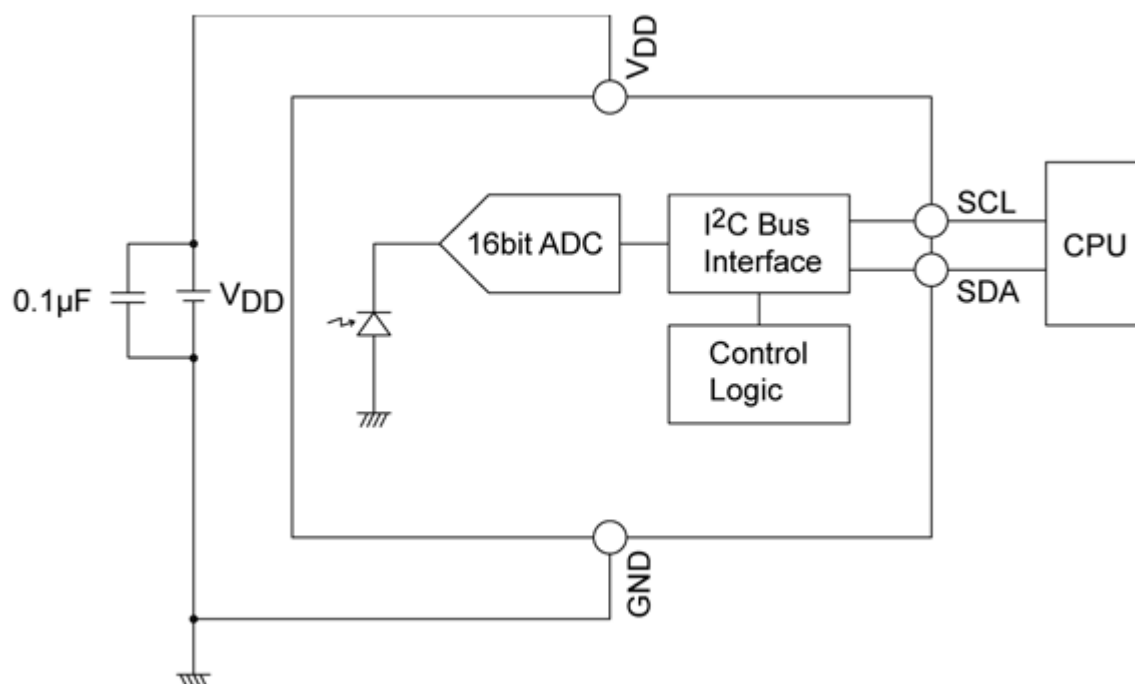
#### End Products

- Feature phone, Smart phone
- Digital TV (LCD, OLED, CRT Monitor)
- Laptop-PC, Tablet, PDA
- DSC, DVC, Digital SLR, Mirrorless

#### Part Electrical Specifications

| Product        | Pricing (\$/Unit) | Compliance             | Status | I <sub>o</sub> Typ (μA) | Output Interface | V <sub>in</sub> Min (V) | V <sub>in</sub> Max (V) | T <sub>A</sub> Min (°C) | T <sub>A</sub> Max (°C) | Package Type |
|----------------|-------------------|------------------------|--------|-------------------------|------------------|-------------------------|-------------------------|-------------------------|-------------------------|--------------|
| LV0104CS-TLM-H | 0.7               | Pb-free<br>Halide free | Active | 70                      | I2C              | 2.3                     | 3.6                     | -30                     | 85                      | ODCSP-4      |

#### Application Diagram



For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com).

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