



SANYO Semiconductors DATA SHEET

LV5204PL — Bi-CMOS IC LED Driver for Cellular Phone

Overview

The LV5204PL is a LED driver for cellular phone.

Features

- LED driver × 13 (tricolor, main, sub, flash) and switching regulator control circuit incorporated
- Each LED current value adjustable by serial bus
- Compatible with flash LED strobo mode
- Ringing tone and tricolor LED synchronization function incorporated
- Gradation function incorporated
- Compact package

Functions

- PWM switching regulator control circuit
(Triangular wave oscillator, reference voltage, PWM comparator, driver, DTC, and short-circuit protective circuit incorporated)
(Timer-latch type output cut-off circuit in case of overload)
- LED drivers
 - Main LC backlight LED driver × 4
LED current 5-bit changeover 0.6mA to 20.3mA
 - Sub LC backlight LED driver × 2
LED current 5-bit changeover 0.6mA to 20.3mA
 - Tricolor LED driver × 1
LED current 5-bit independent changeover 0.5 to 16mA
Ringing tone synchronization function (SCTL : Forced to operate at SCTL : H)

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LV5204PL

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Flash LED driver × 4

LED current 4-bit independent changeover 2mA to 32mA

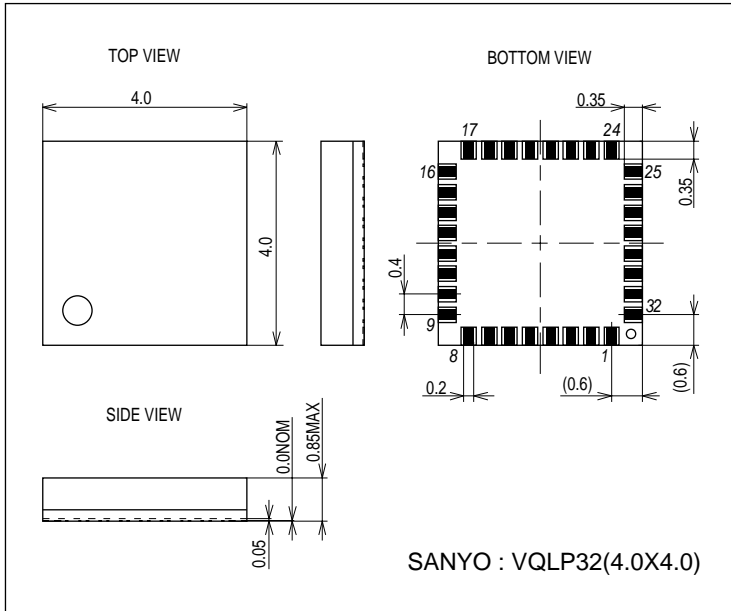
Two-fold current of the above during strobo mode 4mA to 64mA (FCTL : H)

- Gradation function

Package Dimensions

unit : mm (typ)

3331



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