

Features

- 4 x Independent LED Drivers
- Wide Range, Programmable LED Current
- Build-In PWM Dimming
- Independent Open, SOA Protection
- Programmable External Power MOS SOA
- Build-In UVLO
- Low Power CMOS Process
- 20 Pin Package
- Lead-Free, RoHS Compliant

Applications

- High Power LED Backlight
- Low Cost LCD Monitor
- High Quality LCD TV

General Description

The GS7L05 is an LED backlight controller with four independent linear, programmable current regulators. The output current of each regulator can be respectively set by an external current-sense resistor.

The device supports pulse width modulation (PWM) brightness dimming by adjusting the DC voltage on the PWMIN pin. The recommended dimming frequency is from 100Hz to 2000Hz.

The device features LED open and SOA protection that latch off the driving function of individual channel to prevent the IC from consuming too much current when corresponding channel happened open or SOA conditions.

Typical Application

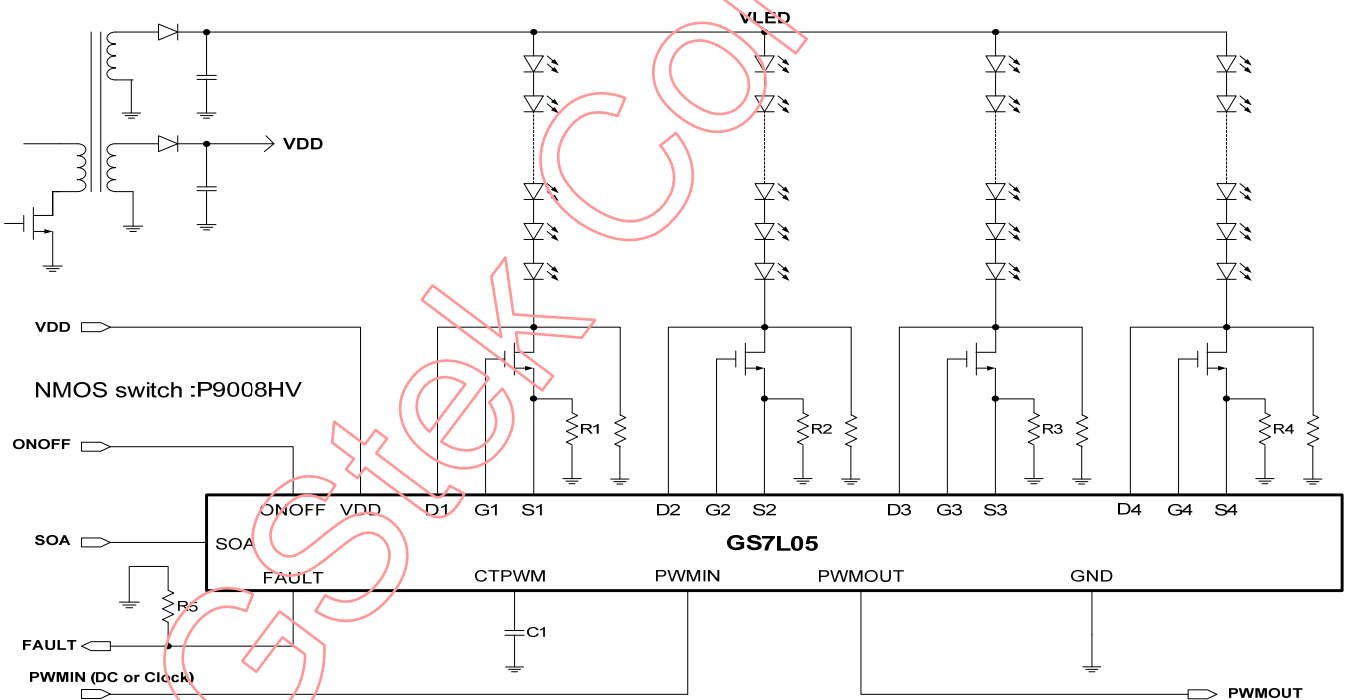


Figure 1 Typical application of GS7L05

Note: 1、 The recommended value of R5 is greater than 400KΩ.

* Patent pending

2、 Recommend power sequence as VLED→VDD→PWMIN→ONOFF

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