Features

- 6 x Independent LED Drivers
- Wide Range, Programmable LED Current
- Build-In PWM Dimming
- Independent Open, SOA, Short Protection
- External Power MOS minimum drain voltage Protection circuit
- Programmable External Power MOS Open,
 SOA, minimum voltage detection threshold
- Programmable Blanking time
- Build-In UVLO
- Sustaining 0% dimming
- Support Local Dimming
- Low Power CMOS Process
- SOP-28 Package
- Lead-Free, RoHS Compliant

Applications

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

Typical Application

General Description

The GS7L08 is a LED backlight controller with six independent linear, programmable current regulators. The output current of each regulators can be respectively set by an external current-sense resistor.

The device supports pulse width modulation (PWM) brightness dimming by adjusting the DC level or duty of clock on the PWMIN pin. The recommended dimming frequency is from 100Hz to 500Hz.

The device built in minimum voltage detection function that informs boost converter to adjust LED voltage to guarantee LED strings' current normal.

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

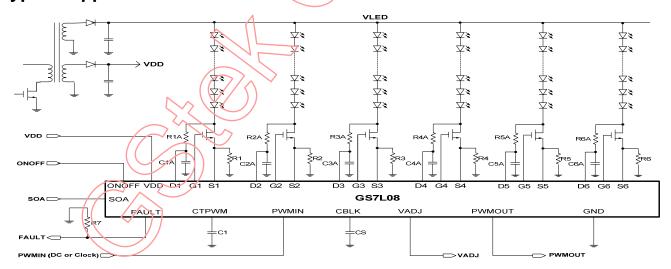


Figure 1 Typical Application of GS7L08

Note: 1.The recommended value of R7 is greater than 200K Ω .

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