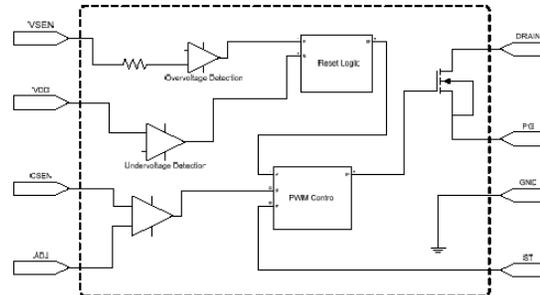


CCE7000 White LED Driver

FEATURES

- Vdd 2.4 to 5.5V
- LED drive current up to 60 mA
- High efficiency - low cost
- Constant current regulation
- Over-voltage protection
- Low ripple
- TSSOP8 package
- Other packages on request

BLOCK DIAGRAM



APPLICATIONS

- Display backlighting (phones, PDAs, digital cameras a.o.)
- Lighting (flashlights, camcorder)
- Automotive (backlights, displays)
- Toys and advertising
- Household appliances

GENERAL DESCRIPTION

The CCE7000 is a boost converter designed to drive white LEDs. Constant current driving allows connecting the LED in series which leads to uniform brightness of the LEDs and eliminates the ballast resistors. The brightness of the LEDs is controlled by an external voltage at the pin ADJ (CTRL). Assigning this pin to ground will shutdown the circuit. The switching frequency is about 1.2 MHz, allowing the use of very small external components. A low voltage across the current sense resistor minimizes power loss for better efficiency. Lead-free package is also available.

Absolute Maximum Ratings

Parameter	Value	Unit
ST Pin Voltage	6	V
ADJ Pin Voltage	6	V
DRAIN Pin Voltage	14	V
VDD Pin Voltage	6	V
Operation Temperature	80	°C
Junction Temperature	125	°C
Storage Temperature	150	°C
Lead Temperature	300	°C



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