

OZ9967

FEATURES

- High frequency DC/DC boost converter controller
- Drives 6 LED strings in parallel
- Integrated LED current balance control circuit
- Up to 1MHz switching frequency
- External PWM or internal LPWM dimming control
- LED short circuit protection
- Over-current and over-voltage protection
- Soft start function

GENERAL DESCRIPTION

The OZ9967 is an LED controller that drives up to six (6) strings of LEDs in parallel configuration, with multiple LEDs per string connected in series. It provides six (6) LED current sense inputs in an “OR” configuration to improve backlight reliability. This allows the backlight to remain functional in the event that any string (s) is damaged during normal operation.

OZ9967 supports external Pulse Width Modulation (PWM) or internal Low frequency PWM (LPWM) dimming control. Plus, it provides an integrated circuit to balance the current flow through each LED string. The balance transistors are external to accommodate different power dissipation resulting from the forward voltage difference among the LED strings.

APPLICATIONS

- LCD Monitor
- LCD TV

APPLICATION DIAGRAM

