

OZ9956B

FEATURES

- High frequency DC/DC power converter controller
- Drives up to 6 strings in parallel
- Integrated LED current balance control circuit
- Wide input voltage range
- Up to 2.0MHz switching frequency
- External PWM dimming
- Over-voltage and over-current protection
- Soft start function

GENERAL DESCRIPTION

OZ9956B is a high efficiency, DC/DC controller that drives up to six (6) strings of LEDs in parallel configuration, with multiple LEDs in each string connected in series. It is targeted for notebook/netbook applications.

It provides six (6) LED current sense inputs in an “OR” configuration for improved backlight reliability. This allows the backlight to remain functional in the event that any string (s) is damaged during normal operation.

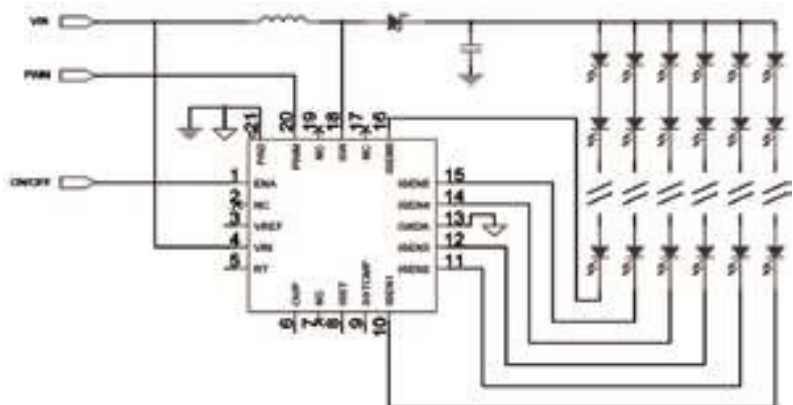
OZ9956B can receive either an analog signal or an external Pulse Width Modulation (PWM) signal for the dimming control function.

This IC provides an integrated circuit to balance the current flow through each LED string, as well as, the integrated power MOSFET.

APPLICATIONS

- Notebook/Netbook Computer

APPLICATION DIAGRAM



OZ9956C

FEATURES

- High frequency DC/DC power converter controller for LEDs
- Drives up to 6 strings in parallel
- Integrated LED current balance control circuit
- Integrated power MOSFET
- Up to 1.5MHz switching operation
- Supports phase-shift dimming with adaptive phase control
- External PWM dimming control
- Output over-voltage and short circuit protection
- LED over-current and short circuit protection
- Switch over-current protection
- Thermal protection
- Under-voltage protection

GENERAL DESCRIPTION

The OZ9956C is a high efficiency, DC/DC controller that drives up to six (6) strings of LEDs in parallel configuration, with multiple LEDs in each string connected in series. It is targeted for notebook/netbook applications.

It provides six (6) LED current sense inputs in an “OR” configuration for improved backlight reliability. This allows the backlight to remain functional in the event that any string (s) is damaged during normal operation.

OZ9956C supports an external Pulse Width Modulation (PWM) signal for the phase-shifted dimming control function. It provides an integrated circuit to balance the current flow through each LED string, as well as, an integrated power MOSFET.

APPLICATIONS

- Notebook/Netbook Computer

APPLICATION DIAGRAM

