

Step-up Controller for 12 Strings 60mA White LED Driver

Features

- 5V~30V input voltage range
- High Power Current Mode DC/DC boost Controller
- Drives up to 12 strings in parallel
- 100Hz~2KHz PWM or DC Input True PWM Dimming
- 2.5% Current Matching Accuracy Between Strings
- Programmable Switching Frequency
- Programmable Slope Compensation
- Input Under Voltage Protection
- Output Short Circuit Protection
- Hiccup Mode Protection for Output Over Voltage Protection and LED String Short Protection
- Thermal Shutdown
- Available in SOP-28, TSSOP-28 (FD) and TQFN5X5-28 Package

General Description

The G5997 is current mode DC/DC controller that drives up to 12 strings connected in parallel configuration with multiple LEDs in each string connected in series. External current sense resistor and slope compensation resistor make it flexible for various applications. PWM dimming is implemented with external PWM input signal or DC input signal. The dimming frequency can be programmed by an external setting capacitor.

The G5997 includes hiccup protection from short circuits, with automatic recovery after the fault condition is cleared.

The G5997 is available in a SOP-28, TSSOP-28 (FD) and TQFN5X5-28 package.

Applications

- Desktop LCD Flat Panel Displays
- Flat Panel Video Displays
- LCD TVs and Monitors

Ordering Information

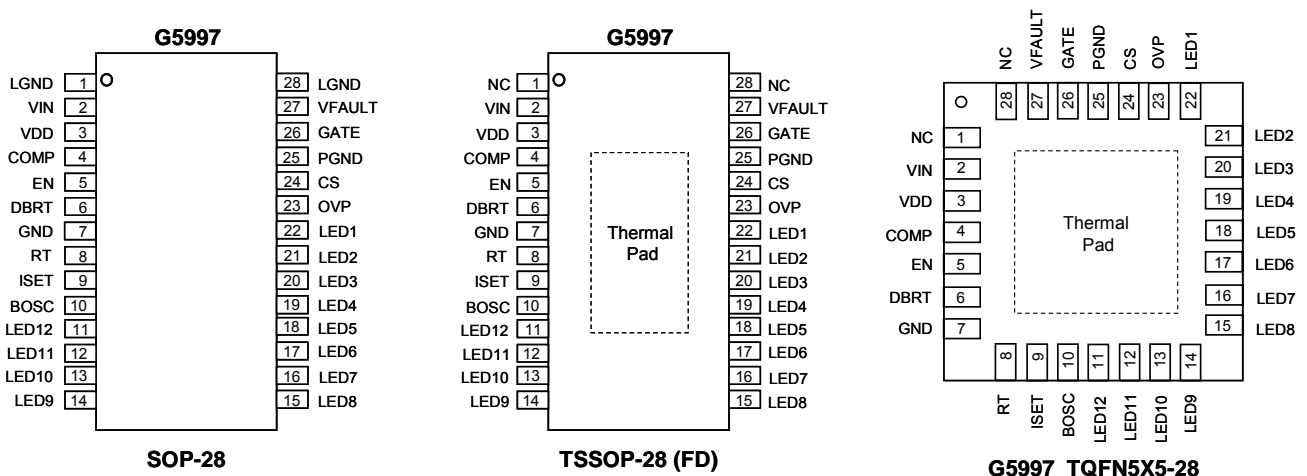
| ORDER NUMBER | MARKING | TEMP. RANGE | PACKAGE (Green) |
|--------------|---------|----------------|-----------------|
| G5997P61U | G5997 | -20°C to +85°C | SOP-28 |
| G5997F41U | G5997 | -20°C to +85°C | TSSOP-28 (FD) |
| G5997R61U | 5997 | -20°C to +85°C | TQFN 5X5-28 |

Note: P6:SOP-28 F4:TSSOP-28 (FD) R6:TQFN 5X5-28

1 : Bonding Code

U : Tape & Reel

Pin Configuration



Note: Recommend connecting the Thermal Pad to the Ground for excellent power dissipation.

Step-up Controller for 12 Strings 120mA White LED Driver

Features

- 5V~30V input voltage range
- High Power Current Mode DC/DC boost Controller
- Drives up to 12 strings in parallel
- PWM or DC Input True PWM Dimming
- 2.5% Current Matching Accuracy Between Strings
- Programmable Switching Frequency
- Programmable Slope Compensation
- Input Under Voltage Protection
- Output Short Circuit Protection
- Hiccup Mode Protection for Output Over Voltage Protection and LED String Short Protection
- Thermal Shutdown
- Available in SOP-28 ,TSSOP-28 (FD) and HSOP-28 Package

Applications

- Desktop LCD Flat Panel Displays
- Flat Panel Video Displays
- LCD TVs and Monitors

General Description

The G5999 is current mode DC/DC controller that drives up to 12 strings connected in parallel configuration with multiple LEDs in each string connected in series. External current sense resistor and slope compensation resistor make it flexible for various applications. PWM dimming is implemented with external PWM input signal or DC input signal. The dimming frequency can be programmed by an external setting capacitor.

The G5999 includes hiccup protection from short circuits, with automatic recovery after the fault condition is cleared.

The G5999 is available in a SOP-28 ,TSSOP-28 (FD) , and HSOP-28 package.

Ordering Information

| ORDER NUMBER | MARKING | TEMP. RANGE | PACKAGE (Green) |
|--------------|---------|----------------|-----------------|
| G5999P61U | G5999 | -20°C to +85°C | SOP-28 |
| G5999F41U | G5999 | -20°C to +85°C | TSSOP-28 (FD) |
| G5999P91U | G5999 | -20°C to +85°C | HSOP-28 |

Note: P6:SOP-28 F4:TSSOP-28 (FD) P9: HSOP-28

1 : Bonding Code

U : Tape & Reel

Pin Configuration

