

# 40V Step-Up Regulator for White LED Driver with PWM Dimming

## DESCRIPTION

The ETA1165 is a high efficiency step-up converter with an internally integrated 40V power MOSFET. It runs with an optimal 600KHz frequency that enables the use of small external components while still providing the best efficiency. It can drive up to 10 to 12 LEDs in series and also in parallel combinations. The incorporated true PWM-Dimming feature through CTRL pin does not generate audible noise on the output capacitor during dimming because it does not burst the LED current. For maximum protection, the ETA1165 has an OVP protection feature that prevents the output voltage exceeding the maximum rating of the ETA1165 and the output cap during open-LED conditions.

ETA1165 is available in a space-saving SOT23-6 package.

## FEATURES

- Up to 92% Efficiency
- 40V OVP protection
- True PWM Brightness Control
- 200mV Feedback Voltage
- SOT23-6 Package

## APPLICATIONS

- LED Backlighting for Tablets, MIDs and Smartphones
- LED Driver

## ORDERING INFORMATION

PART #	PACKAGE PIN	TOP MARK
ETA1165S2G-T	SOT23-6	DQYW └── Date Code └── Product Number

## TYPICAL APPLICATION

