

## 40V Boost Converter for LED driver / TFT Bias / USB Power

### DESCRIPTION

The ETA1617 is a high efficiency step-up converter with an internally integrated 40V power MOSFET. It runs with an optimal 0.8MHz frequency that enables use of small external components while still providing best efficiencies. It has an internal current limit as high as 1A, and it can drive up to 10 LEDs at 50mA output current. The incorporated 25-100KHz true PWM-Dimming feature by EN pin can be used to digitally program the LED current. For maximum protection, the ETA1617 has an internal DVP protection at 38V to prevent the chip from damages when the LED string is not connected to the output.

ETA1617 is available in a space-saving SOT23-6 package.

### FEATURES

- Up to 91% Efficiency (6 LEDs)
- Drive up to 10 LEDs with 50mA
- Drive up to 40 LEDs in total
- 38V DVP protection
- True PWM Brightness Control
- 200mV Feedback Voltage
- 1A current limit
- SOT23-6 Package

### APPLICATIONS

- Cellphone and Smartphone
- MID or Tablet PC
- TFT-bias for LCD screen
- Power for OLED
- LED torch
- Satellite Set Top Box

### TYPICAL APPLICATION

