High Efficiency 40V White LED Driver with Dimming Control

FEATURES
- 2.5V to 5.5V Input Voltage Range
- Wide Range for PWM Dimming, Ranging from 100Hz to 200kHz
- High Efficiency
- Drive up to 10 WLEDs on One String
- Drive up to 39 LEDs at 5V Input (3S13P)
- Fast 1MHz Switching Frequency
- Low Feedback Voltage 0.1V (ANX6911) or 0.3V (ANX6913)
- Over Voltage Protection
- RoHS Compliant
- Low Profile TSOT23-6 Packages

APPLICATIONS
- TFT LCD Panel Backlights
- Tablet PCs
- Digital Cameras
- GPS Receivers
- PDAs, Handheld Computers
- Cellular Phones

DESCRIPTION
The ANX6911/ANX6913 is a current mode step-up DC/DC converter with fixed 1 MHz switching frequency, and is specially designed for driving WLEDs with a constant current. The ANX6911/ANX6913 can drive up to 10 white LEDs in series from a Lithium-ion battery. Series connection of LEDs provides identical LED current for uniform brightness and minimizes the number of traces to the LEDs. The device provides a low feedback voltage of 0.1V(ANX6911) or 0.3V(ANX6913) which can minimize power dissipation, and the internal soft start function can reduce the inrush current. The LED current is initially set with the external sense resistor.
For the protection, the ANX6911/ANX6913 includes current limit protection, thermal shutdown protection, under-voltage lockout (UVLO), and over-voltage function, which can shut off the device if output voltage reaches above 39V. The ANX6911/ANX6913 is available in a space saving TSOT23-6 package.

Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Package</th>
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<tbody>
<tr>
<td>ANX6911ABK</td>
<td>TSOT23-6</td>
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<tr>
<td>ANX6913ABK</td>
<td>TSOT23-6</td>
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