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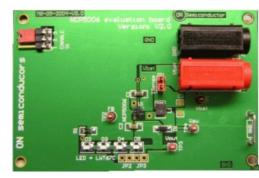
## **Energy Efficient Innovations**



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## NCP5006EVB: White LED Driver Evaluation Board

The NCP5006 is a high efficiency boost converter operating in current loop, based on a PFM mode, to drive White LEDs. The current mode regulation allows a uniform brightness of the LEDs. The chip has been optimized for small ceramic capacitors, capable of supplying 1.0 W output power.



## **Features and Applications**

## Features

- 2.7 to 5.5 V Input Voltage Range
- Vout to 24 V Output Compliance Allows up 5 LEDs Drive in Series
- Built-in Overvoltage Protection
- Inductor Based Current Brings up to 90% Efficiency
- Constant Output Current Regulation
- 0.3 uA Standby Quiescent Current
- Includes Dimming Function (PWM)
- Enable Function Driven Directly from Low Battery Voltage Source
- Automatic LEDs Current Matching
- Thermal Shutdown Protection
- All Pins are Fully ESD Protected
- Low EMI Radiation
- Pb-free Package is available

| Evaluation/Development Tool Information |        |            |                                   |              |   |  |  |
|---|--------|------------|-----------------------------------|--------------|---|--|--|
| Product                                 | Status | Compliance | Short Description                 | Parts Used   | Action  |  |  |
| NCP5006EVB                              | Active |            | White LED Driver Evaluation Board | NCP5006SNT1G | >> Contact<br>Local Sales<br>Office<br>>> Inventory |  |  |

| Technical Documents        |  |   |     |  |  |  |
|----------------------------|--|---|-----|--|--|--|
| Туре                       | Document Title                                 | Document ID/Size                        | Rev |  |  |  |
| Eval Board: BOM            | NCP5006EVB BILL OF MATERIALS                   | NCP5006EVB_BOM - 67.0 KB                | 0   |  |  |  |
| Eval Board: Gerber         | NCP5006EVB GERBER LAYOUT FILES (ZIP FORMAT)    | NCP5006EVB_GERBER.ZIP - 35.0 KB         | 2   |  |  |  |
| Eval Board: Schematic      | NCP5006EVB SCHEMATIC                           | NCP5006EVB_SCHEMATIC.PDF - 21.0 KB      | 0   |  |  |  |
| Eval Board: Test Procedure | NCP5006EVB TEST PROCEDURE                      | NCP5006EVB_TEST_PROCEDURE.PDF - 67.0 KB | 0   |  |  |  |
| Video                      | White LED Driver Evaluation Board - NCP5006EVB | WVD17605/D                              |     |  |  |  |

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Board - NCP5006EVB

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