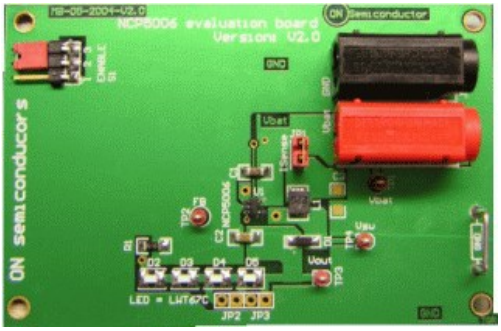
NCP5006EVB: White LED Driver Evaluation Board

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 Local Sales Office ›› Inventory

Technical Documents

Type	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	