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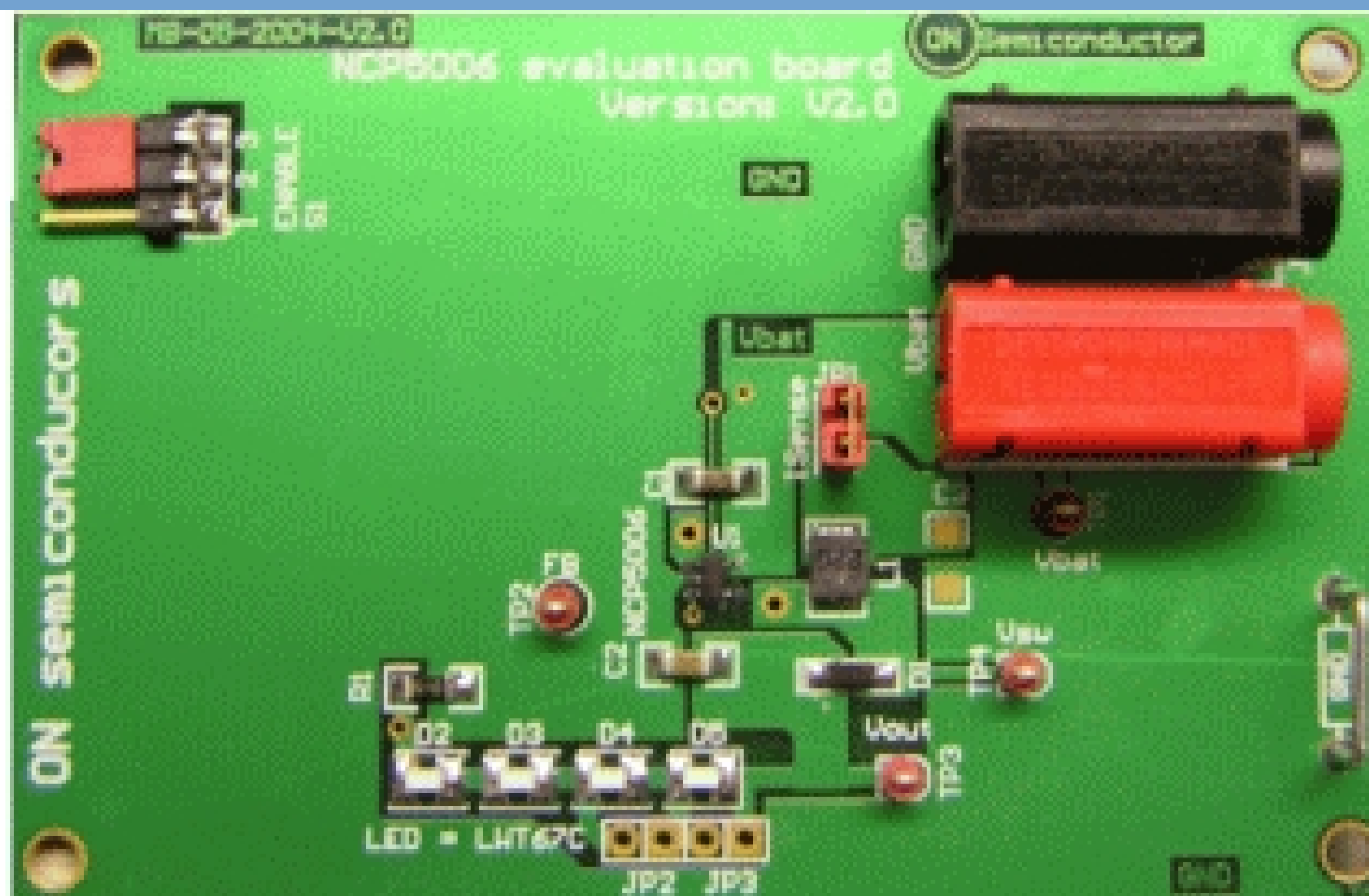
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NCP5006EVB:NCP5006 White LED Driver Evaluation Board

Evaluation Board Description

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 to 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 Board Information

Evaluation Board	Status	Pb-free	Short Description	Parts Used	Action
NCP5006EVB	Active		NCP5006 White LED Driver Evaluation Board	NCP5006SNT1G	Contact Local Sales Office

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

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