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NCP3066SCBCKGEVB:NCP3066 SOIC8 BUCK DB

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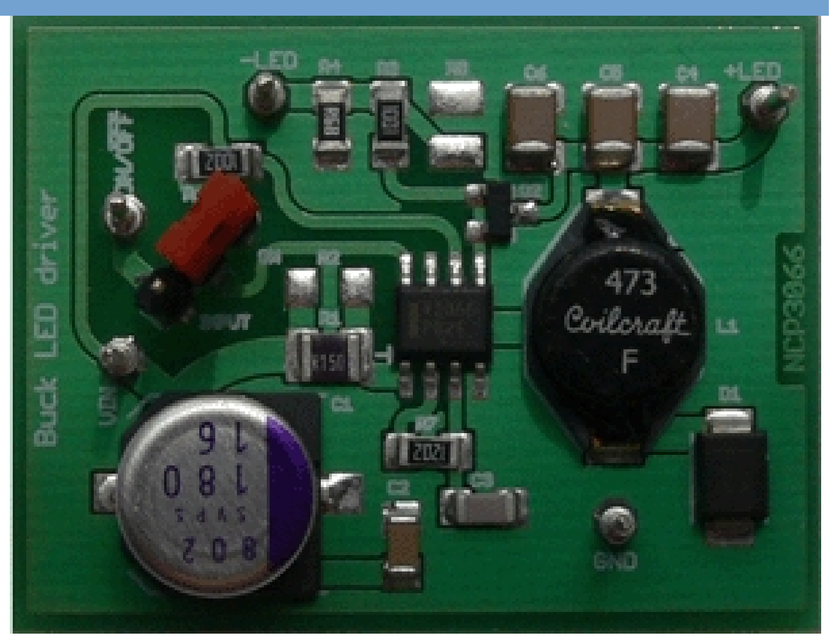
Evaluation Board Description



The NCP3066 is a monolithic switching regulator designed to deliver constant current for powering high brightness LEDs. The device has a low feedback voltage of 235 mV which is used to regulate the average current of the LED string.The device supports a buck configuration with a wide input voltage range from 3.0V to 40.0V. The NCP3066 is a low cost converter that supports a peak current of 1.5A with a maximum duty cycle of 85.7%. The ON/OFF function allows turn the device to low consumption mode, or drive the LED brightness using PWM signal.
Size: 42mm x 32mm x 13mm

Features and Applications

Features

- Integrated 1.5 A Switch
- Input Voltage Range from 3.0 V to 40 V
- Logic Level Shutdown Capability
- Low Feedback Voltage of 235 mV
- Cycle by Cycle Current Limit
- No Control Loop Compensation Required
- Frequency of Operation Adjustable up to 250 kHz
- Operation With All Ceramic Output Capacitors or No Output Capacitance
- Analog and Digital PWM Dimming Capability
- Internal Thermal Shutdown with Hysteresis
- NCV Prefix for Automotive and Other Applications Requiring Site and Control Changes
- These are Pb Free Devices

Evaluation Board Information

Evaluation Board	Status	Pb-free	Short Description	Parts Used	Action
NCP3066SCBCKGEVB	Active	Pb-fr	NCP3066 SOIC8 BUCK DB	NCP3066DR2G	Contact Local Sales Office

Technical Documents

Type	Document Title	Document ID/Size	Rev
Eval Board: BOM	NCP3066SCBCKGEVB Bill of Materials ROHS Compliant	NCP3066SCBCKGEVB_BOM_ROHS.PDF - 101.0 KB	0
Eval Board: Gerber	NCP3066SCBCKGEVB Gerber Layout Files (Zip Format)	NCP3066SCBCKGEVB_GERBER.ZIP - 30.0 KB	0
Eval Board: Schematic	NCP3066SCBCKGEVB Schematic	NCP3066SCBCKGEVB_SCHEMATIC.PDF - 132.0 KB	0
Eval Board: Test Procedure	NCP3066SCBCKGEVB Test Procedure	NCP3066SCBCKGEVB_TEST_PROCEDURE.PDF - 395.0 KB	0

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