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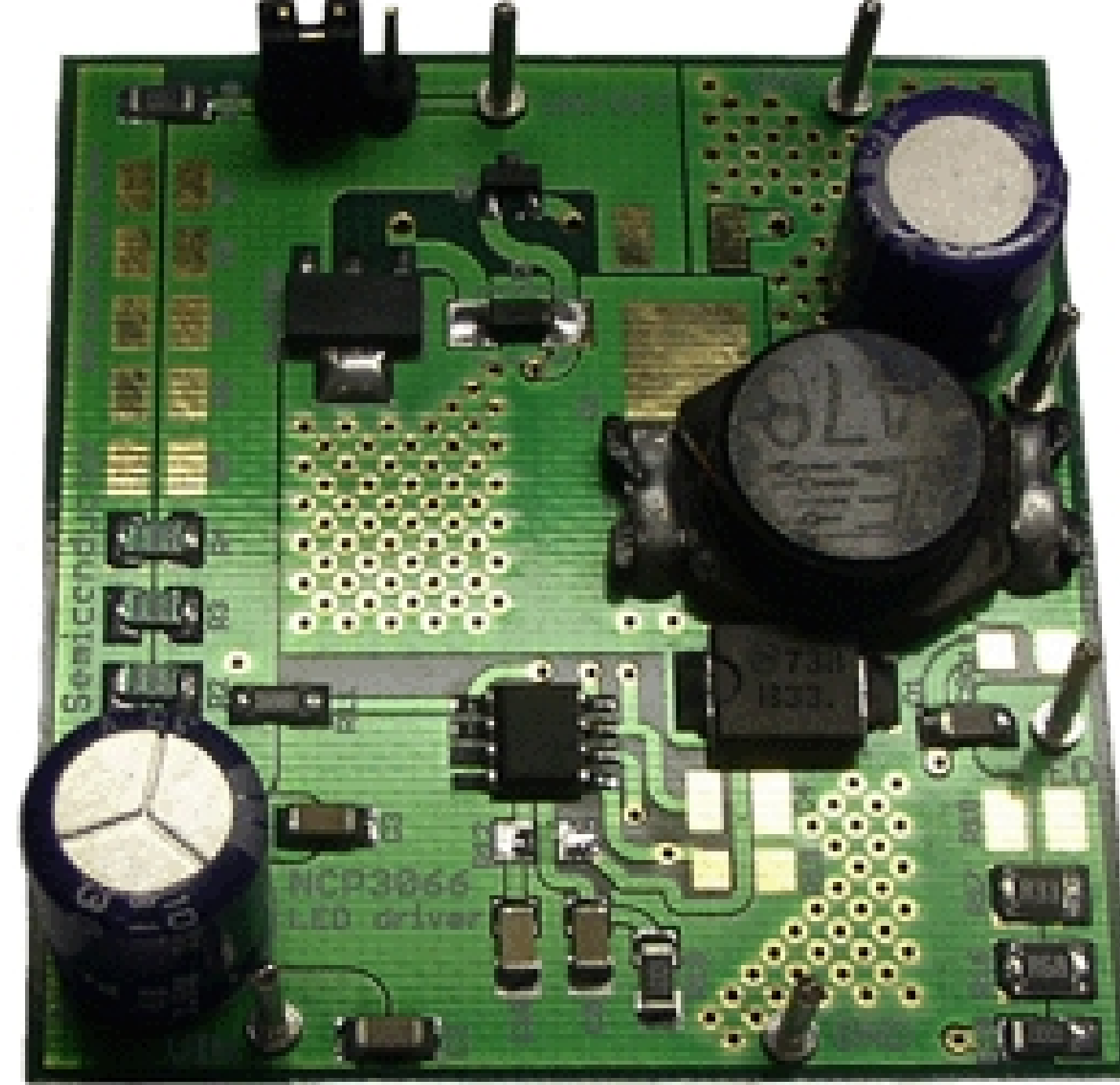
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NCP3066S3BCKGEVB:NCP3066 3A SOIC BUCK DB

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 turning of the device to low consumption mode, or driving the LED brightness using PWM signal. The NCP3066 can also be used as a controller for peak currents greater than 1.5A when an external device is used.
Size: 53mm x 50mm x 14mm



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
NCP3066S3BCKGEVB	Active	<input checked="" type="checkbox"/> Pb-free	NCP3066 3A SOIC BUCK DB	NCP3066DR2G	Contact Local Sales Office

Technical Documents

Type	Document Title	Document ID/Size	Rev
Eval Board: BOM	NCP3066S3BCKGEVB Bill of Materials ROHS Compliant	NCP3066S3BCKGEVB_BOM_ROHS.PDF - 94.0 KB	0
Eval Board: Gerber	NCP3066S3BCKGEVB Gerber Layout Files (Zip Format)	NCP3066S3BCKGEVB_GERBER.ZIP - 50.0 KB	0
Eval Board: Schematic	NCP3066S3BCKGEVB Schematic	NCP3066S3BCKGEVB_SCHEMATIC.PDF - 132.0 KB	0
Eval Board: Test Procedure	NCP3066S3BCKGEVB Test Procedure	NCP3066S3BCKGEVB_TEST_PROCEDURE.PDF - 170.0 KB	0

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