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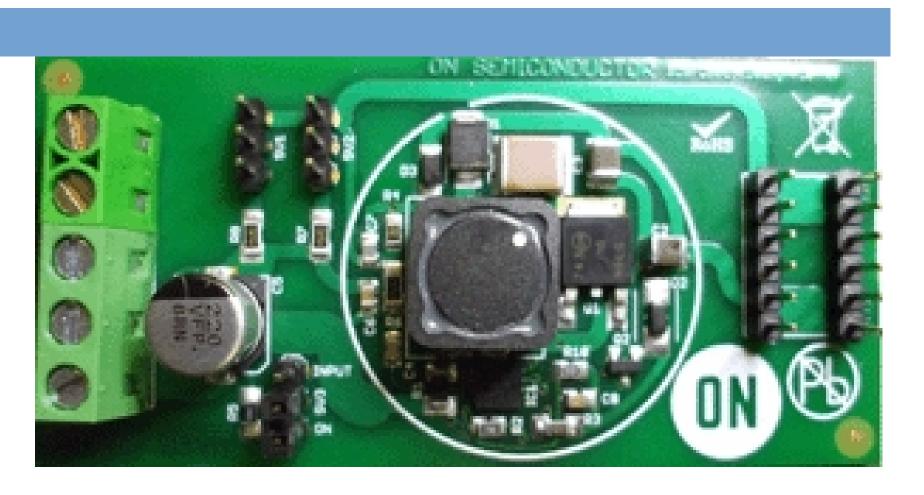
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NCP3066DFSEPGEVB:NCP3066 DFN SEPIC DB

Evaluation Board Description

The NCP3066 is a monolithic switching regulator designed to deliver constant current for powering high brightness LEDs. The device has a very low feedback voltage of 235 mV (nominal) which is used to regulate the average current of the LED string. In



addition, the NCP3066 has a wide input voltage up to 40 V to allow it to operate from 12 Vac or 12 Vdc supply, commonly used for lighting applications as well as unregulated supplies such as rechargeable batteries. The ON/OFF function allows turn the device to low consumption mode or regulate the brightness of LEDs. A SEPIC (single -ended primary inductance converter) is distinguished by the fact that its input voltage range can overlap the output voltage at LEDs string.

Size: 77mm x 37mm x 15mm, silk -screen diameter: 30 mm

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
NCP3066DFSEPGEVB	Active	➤ Pb-fr	NCP3066 DFN SEPIC DB	NCP3066MNTXG	Contact Local Sales Office

Technical Documents						
Туре	Document Title	Document ID/Size	Rev			
Eval Board: Gerber	NCP3066DFSEPGEVB Gerber Layout Files (Zip Format)	NCP3066DFSEPGEVB_GERBER.ZIP - 40.0 KB	0			
Eval Board: Schematic	NCP3066DFSEPGEVB Schematic	NCP3066DFSEPGEVB_SCHEMATIC.PDF - 127.0 KB	0			
Eval Board: Test Procedure	NCP3066DFSEPGEVB Test Procedure	NCP3066DFSEPGEVB_TEST_PROCEDURE.REV1.PDF - 44.0 KB	1			
Eval Board: BOM	NCP3066DFSEPGEVB Bill of Materials ROHS Compliant	NCP3066DFSEPGEVB_BOM_ROHS.PDF - 100.0 KB	0			

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