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Design Resources
Design & Development Tools
Evaluation Boards
Conversion Services
Evaluation Board Documents
Custom Foundry Services
Sample Kits
Simulation Models
Product Recommendation Tools
Software
Video
Technical Support

Home > Support > Design Support > Design Resources > Evaluation Boards

NCP3065D2SLDGEVB:SEPIC LED DRV 350MA

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Select Product ... Go

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Evaluation Board Description

This circuit is intended for driving high power LEDs. It is designed for such wide input nominal 12 Vdc applications as automotive and low voltage lighting (12 Vdc/12 Vac). An optional dimming PWM input is included. The circuit is based on NCP3065 operation at 250 kHz in a non-isolated configuration. The primary advantages of this circuit are in the wide input voltage range, wide output voltage range, and in its high efficiency. A pulse feedback resistor (R8) is used to vary the slope of the oscillator ramp, achieving duty cycle control and steady switching frequency over a wide input voltage range.

Features and Applications

Features

- Buck-Boost operation
- Wide input and output operation voltage
- Regulated output current
- Dimming
- High frequency operation
- Minimal input and output current ripple
- Open LED protection
- Output short circuit protection

Evaluation Board Information

Evaluation Board	Status	Pb-free	Short Description	Parts Used	Action
NCP3065D2SLDGEVB	Active	Pb-fr	SEPIC LED DRV 350MA	NCV3065MNTXG	Contact Local Sales Office

Technical Documents

Type	Document Title	Document ID/Size	Rev
Eval Board: BOM	NCP3065D2SLDGEVB Bill of Materials ROHS Compliant	NCP3065D2SLDGEVB_BOM_ROHS.PDF - 142.0 KB	0
Eval Board: Gerber	NCP3065D2SLDGEVB Gerber Layout Files (Zip Format)	NCP3065D2SLDGEVB_GERBER.REV0.ZIP - 31.0 KB	0
Eval Board: Schematic	NCP3065D2SLDGEVB Schematic	NCP3065D2SLDGEVB_SCHEMATIC.PDF - 186.0 KB	0
Eval Board: Test Procedure	NCP3065D2SLDGEVB Test Procedure	NCP3065D2SLDGEVB_TEST_PROCEDURE.PDF - 48.0 KB	0
Design Notes	DN06031-D Design Note	DN06031-D.PDF - 370.0 KB	0

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