ON Semiconductor®

NCL30105GEVB: 350 mA Buck LED Driver Evaluation Board

Evaluation Board Description

The NCL30105 is a peak current controlled fixed off time buck controller designed for LED driver applications. It is optimized to operate in deep continuous conduction mode eliminating the need for output electrolytic capacitors. Featuring an adjustable off time generator, the controller can drive a MOSFET up to a switching frequency of 500 kHz. A dedicated dimming pin enables the use of a pulsewidth modulated logic signal to dim the LED directly. The soft-start pin creates a startup sequence that slowly ramps up the peak current and enables the adjustment of the peak current set point for analog dimming control. The device features robust protection features to detect switch overcurrent faults and to detect maximum on time events.

Evaluation Board Information

Evaluation Board	Status	Compliance	Short Description	Parts Used	Action
NCL30105GEVB	Active	Pb-free	350 mA Buck LED Driver Evaluation Board	NCL30105DR2G	

Technical Documents

Type	Document Title	Document ID/Size	Rev
Eval Board: BOM	NCL30105GEVB Bill of Materials ROHS Compliant	NCL30105GEVB_BOM_ROHS.PDF - 52.0 KB	0
Eval Board: Gerber	NCL30105GEVB Gerber Layout Files (Zip Format)	NCL30105GEVB_GERBER.ZIP - 48.0 KB	0
Eval Board: Schematic	NCL30105 Schematic	NCL30105GEVB_SCHEMATIC.PDF - 98.0 KB	0
Eval Board: Test Procedure	NCL30105 Test Procedure	NCL30105GEVB_TEST_PROCEDURE.PDF - 731.0 KB	0
Video	LED Lighting Solutions with the NCL30105GEVB Evaluation Board	TND6086/D - -1 KB	1

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