

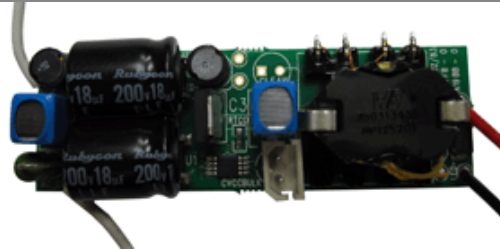


NCL30082FLYGEVB: Flyback 10 W / 500 mA Current Mode Controller Evaluation Board

Evaluation Board Description

The NCL30082 is a PWM current mode controller targeting isolated flyback and non-isolated constant current topologies. The controller operates in a quasi-resonant mode to provide high efficiency. Thanks to a novel control method, the device is able to precisely regulate a constant LED current from the primary side. This removes the need for secondary side feedback circuitry, biasing and an optocoupler.

The device is highly integrated with a minimum number of external components. A robust suite of safety protection is built in to simplify the design. The device supports analog/digital dimming and thermal foldback. While the NCL30082 has integrated fixed overvoltage protection, the designer has the option to program a lower OVP level.



Design Support

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Evaluation Board Information

Evaluation Board	Status	Pb-free	Short Description	Parts Used	Action
NCL30082FLYGEVB	Active		Flyback 10 W / 500 mA Current Mode Controller Evaluation Board	NCL30082ADMR2G , NCL30082BDMR2G	

Technical Documents

Type	Document Title	Document ID/Size	Rev
Eval Board: BOM	NCL30082FLYGEVB Bill of Materials ROHS Compliant	NCL30082FLYGEVB_BOM_ROHS.PDF - 127.0 KB	9
Eval Board: Gerber	NCL30082FLYGEVB Gerber Layout Files	NCL30082FLYGEVB_GERBER.ZIP - 117.0 KB	4
Eval Board: Schematic	NCL30082FLYGEVB Schematic	NCL30082FLYGEVB_SCHEMATIC.PDF - 273.0 KB	0
Eval Board: Test Procedure	NCL30082FLYGEVB Test Procedure	NCL30082FLYGEVB_TEST_PROCEDURE.PDF - 79.0 KB	0
Eval Board: Manual	NCL30083xxxGEVB Evaluation Boards User's Manual	EVBUM2179/D - 1951.0 KB	1

