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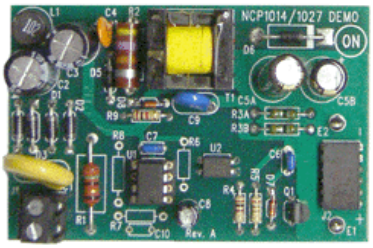
NCP1014LEDR2GEVB:90-265 Vac, 360mA, 24V LED Driver

Evaluation Board Description

The NCP1014LEDR2GEVB is a universal input (90-265 Vac) LED Driver designed for constant current applications. This demo board has been configured in an isolated flyback topology with secondary side constant current control. This board has been preconfigured to source a nominal current of 360mA. The design has open circuit output protection which clamps the output to voltage of 24V. In a universal input flyback configuration, the NCP1014 is limited to approximately 8W. The current and open circuit voltage can be changed by simply changing out a resistor/zener combination.



The NCP1014 is an integrated fixed-frequency current-mode controller with a 700 V MOSFET. It contains all necessary features such as soft-start, frequency jittering, skip cycle etc. to build a rugged and low cost power supply. The device has dynamic self supply to allow it to be powered directly from the high voltage bulk. This demo board uses an auxiliary winding to maximize power output capability.

Evaluation Board Information

Evaluation Board	Status	Pb-free	Short Description	Parts Used	Action
NCP1014LEDR2GEVB	Active		90-265 Vac, 360mA, 24V LED Driver	NCP1014AP100G	

Technical Documents

Type	Document Title	Document ID/Size	Rev
Eval Board: BOM	NCP1014LEDR2GEVB Bill of Materials ROHS Compliant	NCP1014LEDR2GEVB_BOM_ROHS.PDF - 44.0 KB	0
Eval Board: Gerber	NCP1014LEDR2GEVB Gerber Layout Files	NCP1014LEDR2GEVB_GERBER.ZIP - 71.0 KB	0
Eval Board: Schematic	NCP1014LEDR2GEVB Schematic	NCP1014LEDR2GEVB_SCHEMATIC.PDF - 134.0 KB	0
Eval Board: Test Procedure	NCP1014LEDR2GEVB Test Procedure	NCP1014LEDR2GEVB_TEST_PROCEDURE.PDF - 137.0 KB	0
Data Sheet	NCP1014LEDR2EVB Transformer Design	NCP1014LEDR2EVB_TRANSFORMER_DESIGN.REV0.PDF - 19.0 KB	0