# Product Overview


## NCL30001: LED Driver, High Efficiency, Single Stage, Power Factor Corrected

For complete documentation, see the data sheet.

The NCL30001 is a switch mode power supply controller intended for medium to high power single stage power factor (PF) corrected isolated flyback LED Drivers. It employs a Continuous Conduction Mode (CCM) control technique to ensure near unity power factor across a wide range of input voltages and output power.

## Features

- Frequency Jittering
- Brown Out Detector
- High Accuracy Multiplier
- Voltage Feedforward
- Independent Latch-off input
- Adjustable Operating Frequency from 20-250 kHz
- Internal 160 msec Fault Timer
- Fixed Frequency Average Current Mode Control

## Benefits

- Reduces EMI Signature
- Enhanced System Robustness
- Reduces Input Line Harmonics
- Improves Loop Response
- Facilitates Implementation of Overvoltage and Overtemperature Fault Protection

## Applications

- LED Street Lighting
- Low Bay LED Lighting
- LED based Wall Packs and Wall Washers
- Elctronic Control Gear
- Power Factored High Power LED Drivers

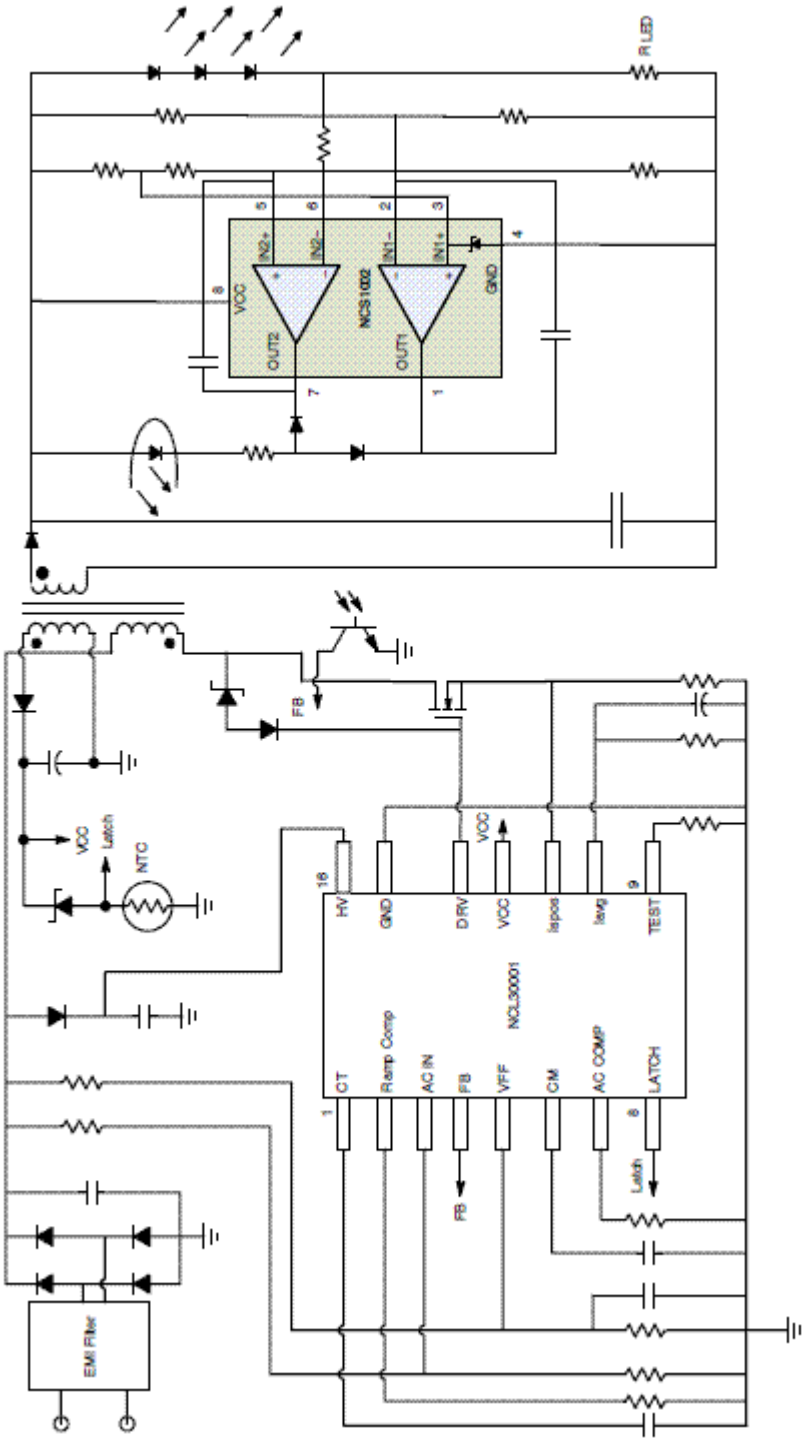
## End Products

- Power Supplies
- Power Adapters

## Part Electrical Specifications

| Product | Compliance | Status | Topology | $V_I$ Min (V) | $V_I$ Max (V) | $V_O$ Max (V) | $I_O$ Max (mA) | $f_{SW}$ Typ (kHz) | Package Type |
|---|---|---|---|---|---|---|---|---|---|
| NCL30001DR2G | Pb-free<br>Halide free | Active | Flyback | 40 | 500 | 20 $V_{GATE}$ | 40/20 ns - Rise/Fall time | Up to 150 | SOIC-16 |

## Application Diagram

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