

## 产品概览

### NCL30288: LED Driver, Power Factor Corrected Quasi-Resonant Primary Side Current Mode Controller

欲看完整文档，请参阅数据表。

The NCL30288 is an Ac-Dc power factor corrected flyback controller targeting isolated and non-isolated buck-boost/SEPIC constant current LED drivers. The controller operates in a quasi-resonant mode to provide optimal efficiency. Thanks to a novel control method, the device is able to tightly 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. This device is specifically intended for very compact, space efficient designs.

#### 特性

- Constant Current Control with Primary Side Feedback
  - Precise Current Regulation Accuracy
  - Power Factor Correction with low harmonic distortion
  - Line Feedforward for Enhanced Regulation Accuracy
  - Wide Vcc operating range
  - User Programmable Thermal Foldback
  - Latched and Auto-recoverable versions
  - Secondary Diode Short Protection
  - Open and Shorted LED Protection
  - Wide Temperature range of -40 to 125 °C
- For more features, see the data sheet

#### 优势

- No Optocoupler or secondary control circuitry required
- No need for binning of LEDs or production trimming for accuracy
- Exceeds industry requirements for lighting
- Supports universal mains applications
- Simplifies support for range of LED forward voltages
- Protects LED Driver from overheating in severe situations
- Flexibility for fault handling
- Robust fault handling
- Robust fault handling of common LED system faults
- Supports outdoor and high temperature environments

#### 应用

- Integrated LED Drive Electronics

#### 终端产品

- LED Bulbs
- LED Power Supply Drivers
- LED Light Engines
- LED Tubes
- Electronic Control Gear for LED Systems

#### 器件电气规格

产品	Pricing (\$/Unit)	Compliance	Status	Topology	V <sub>I</sub> Min (V)	V <sub>I</sub> Max (V)	V <sub>O</sub> Max (V)	I <sub>O</sub> Max (mA)	f <sub>SW</sub> Typ (kHz)	Package Type
NCL30288BSNT1G	0.1733	Pb-free Halide free non AEC-Q and PPAP	Active	Step-Up/Step-Down/SEPIC	9.4	26	200	3000	Up to 150	TSOP-6

欲了解更多信息，请联系您当地的销售支援 [www.onsemi.cn](http://www.onsemi.cn)。

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