

产品概览

NCL30088: 功率因数校正的准谐振初级端电流模式控制器用于LED照明

欲看完整文档，请参阅数据表。



NCL30088是一款AC-DC功率因数校正的反激控制器，用于隔离和非隔离降压-升压/SEPIC恒流LED驱动器。该控制器采用准谐振模式以提供极佳能效。由于新颖的控制方法，该器件能严格对初级端LED电流进行稳流。这省去了次级端反馈电路、偏置和光耦。这器件集成度高，所需外部元件数极少。内置一系列强固的保护特性以简化设计。该器件特别适用于非常紧凑的高能效设计。

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
 - VCC Undervoltage and overvoltage protection
 - Open and Shorted LED Protection
- 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
- Avoids overheating in fault condition
- Robust fault handling
- Robust fault handling of common LED system faults

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 _I Min (V)	V _I Max (V)	V _O Max (V)	I _O Max (mA)	f _{SW} Typ (kHz)	Package Type
NCL30088BDR2G	0.4667	Pb-free Halide free	Active	Flyback	9.4	26	200	3000	Up to 150	SOIC-8
NCL30088DDR2G	0.4667	Pb-free Halide free	Active	Flyback	9.4	26	200	3000	Up to 150	SOIC-8

欲了解更多信息，请联系您当地的销售支援 www.onsemi.cn。

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