

产品概览

NCV8873: 非同步升压控制器，汽车级

欲看完整文档，请参阅数据表。

NCV8873 是可调节输出非同步升压控制器，可驱动外部 N 沟道 MOSFET。该器件使用具有内部斜率补偿峰值电流模式控制。该集成电路结合了为门极驱动器提供电荷的内部稳压器。保护功能包括内部设置软启动、欠压锁定、逐周期电流限制和高温关断。其他功能包括低静态电流睡眠模式和外部可同步开关频率。

特性

- Peak Current Mode Control with Internal Slope Compensation
- 0.2 V 2% Reference Voltage for Constant Current Loads
- Wide Input Voltage Range of 3.2 V to 45 V
- Input Undervoltage Lockout
- Internal Soft Start
- Low Quiescent Current in Sleep Mode
- Cycle by Cycle Current Limit Protection
- Hiccup Mode Overcurrent Protection
- Thermal Shutdown

应用

- LED Lighting, Backlighting, Headlamps
- Start-Stop Systems
- Boost, SEPIC (Non-Inverting Buck Boost)
- Direct Gas Injection

优势

- LED PWM dimming capable
- Good transient response over a wide input voltage and load range
- Accurate current/voltage regulation
- Works in a wide variety of applications
- Disables startup in undervoltage conditions
- Decreases inrush current
- Very low off current
- Protects against over current conditions
- Thermally protects IC

终端产品

- Automotive Systems

器件电气规格

产品	Pricing (\$/Unit)	Compliance	Status	Topology	Phases	Control Mode	V _{CC} Min (V)	V _{CC} Max (V)	f _{sw} Typ (kHz)	Package Type
NCV887300D1R2G	1.1	AEC Qualified PPAP Capable Pb-free	Active	Flyback Step-Up Forward Step-Up/Step-Down	1	Current Mode	3.2	45	1000	SOIC-8
NCV887302D1R2G	1.1	AEC Qualified PPAP Capable Pb-free Halide free	Active	Flyback Forward Quasi-Resonant Step-Up/Step-Down/SEPIC	1	Current Mode	3.2	45	400	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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