

产品概览

NCV8876: Automotive Grade Start-Stop Non-Synchronous Boost Controller

欲看完整文档，请参阅数据表。



The NCV8876 is a Non-Synchronous Boost controller designed to supply a minimum output voltage during Start-Stop vehicle operation battery voltage sags. The controller drives an external N-channel MOSFET. The device uses peak current mode control with internal slope compensation. The IC incorporates an internal regulator that supplies charge to the gate driver. Protection features include, cycle-by-cycle current limiting, protection and thermal shutdown. Additional features include low quiescent current sleep mode operation. The NCV8876 is enabled when the supply voltage drops below 7.3 V, with boost operation initiated when the supply voltage is below 6.8 V.

Use the NCV8876 Evaluation Board SystemVision design and simulation environment to verify parametric and functional performance, and gain a better understanding of the features and behavior through live, virtual testing.

特性

- Automatic enable below 7.3 V (factory programmable)
- -40 C to 150 C operation
- 2 V to 45 V operation
- Low Quiescent Current in Sleep Mode (<12 uA Typical)
- Status monitoring

优势

- Extra functionality in compact SOIC8 package
- Automotive grade
- Operates through cranking and load dump
- Meets Automotive Low Iq requirements
- Provides operating status to microcontroller

应用

- Start-Stop applications

终端产品

- Automotive applications

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
NCV887600D1R2G	1.2	AEC Qualified PPAP Capable Pb-free Halide free	Active	Step-Up	1	Current Mode	3.6	45	Up to 500	SOIC-8
NCV887601D1R2G	1.2	AEC Qualified PPAP Capable Pb-free Halide free	Active	Step-Up	1	Current Mode	3.6	45	Up to 500	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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