

产品概览

NCV8877: Automotive Grade Start-Stop Non-Synchronous Boost Controller

欲看完整文档，请参阅数据表。

The NCV8877 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 NCV8877 is enabled when the supply voltage drops below the wake up threshold. Boost Operation is initiated when the supply voltage drops below the regulation set point.

特性

- Factory programmable output voltage
- 2 V to 45 V operation
- -40°C to 150°C operation
- Automatic enable
- Disable function

优势

- Flexibility
- Operates through cranking and load dump
- Automotive grade
- Extra functionality in compact SOIC-8 package
- Permits disabling by a microcontroller

应用

- Start-stop Applications

终端产品

- Automotive

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
NCV887700D1R2G	1.2	AEC Qualified PPAP Capable Pb-free Halide free	Active	Step-Up	1	Current Mode	3.8	45	Up to 500	SOIC-8
NCV887701D1R2G	1.2	AEC Qualified PPAP Capable Pb-free Halide free	Active	Step-Up	1	Current Mode	3.8	45	Up to 500	SOIC-8
NCV887711D1R2G	1.2	AEC Qualified PPAP Capable Pb-free Halide free	Active							SOIC-8
NCV887720D1R2G	1.2	AEC Qualified PPAP Capable Pb-free Halide free	Active	Step-Up	1	Current Mode	3.8	45	Up to 500	SOIC-8
NCV887740D1R2G	1.2	AEC Qualified PPAP Capable Pb-free Halide free	Active	Step-Up	1	Current Mode	3.8	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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