

Product Overview

NCV8872: Automotive Grade Non-Synchronous Boost Controller

For complete documentation, see the data sheet.

The NCV8872 is an adjustable output non-synchronous boost controller which 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 internally-set soft-start, undervoltage lockout, cycle-by-cycle current limiting, hiccup-mode short-circuit protection and thermal shutdown. Additional features include low quiescent current sleep mode and externally-synchronizable switching frequency.

Features

- Factory Programmable
- 4.8 V to 45 V operation
- -40 C to 150 C operation
- Dual function Enable/Sync pin

Benefits

- Flexibility
- Operates through cranking and load dump with reverse polarity protection diode
- Automotive Grade
- Extra functionality in compact SOIC8 package

Applications

- Instrument clusters
- Engine clusters
- Start/Stop applications
- Navigation
- LED backlighting

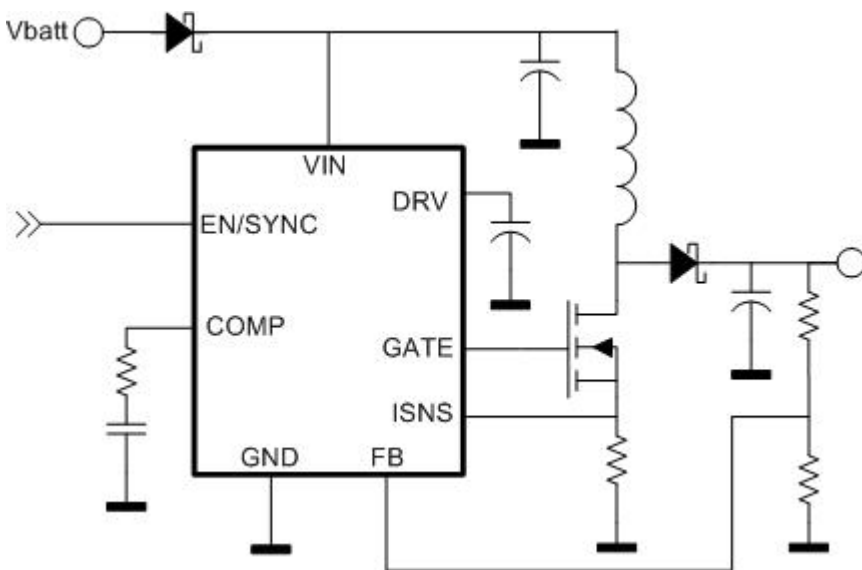
End Products

- Automotive Applications

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Topology	Phases	Control Mode	V _{CC} Min (V)	V _{CC} Max (V)	f _{sw} Typ (kHz)	Package Type
NCV887200D1R2G	1.1	AEC Qualified PPAP Capable Pb-free Halide free	Active	Step-Up Flyback Forward	1	Current Mode	4.8	44	100 - 1000	SOIC-8

Application Diagram



For more information please contact your local sales support at www.onsemi.com.

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