

## Product Overview

### NCV1362: Automotive Primary Side PWM Controller for Low Power Offline SMPS

For complete documentation, see the data sheet.

The NCV1362 is a new quasi-resonant peak current mode control mode controller targeting output power levels from a few watts up to 50 W in a flyback application. It is primary side regulated for Constant Voltage and Constant Current regulation, achieving excellent line and load regulation without requiring the typical opto-coupler and voltage reference.

#### Features

- Quasi-Resonant with Valley Switching Operation
- Maximum Frequency Clamp (No Clamp, 80, 110 and 140 kHz)
- Frequency Jittering
- LFF and BO Feature on a Dedicated Pin
- Dual Frozen Peak Current
- Constant Voltage Primary-Side Regulation <math>< \pm 5\%</math>
- Constant Current Primary-Side Regulation <math>< \pm 5\%</math>
- AEC-Qualified

#### Benefits

- High Efficiency Operation
- Flexible Design Options
- Improved EMI Signature
- Enables Robust Designs
- Optimize Light Load Efficiency and Stand-by Performance

#### Applications

- HEV & EV Vehicles

#### End Products

- OBC & Traction Inverters Auxiliary Power
- HV to LV DC/DC Converters Auxiliary Power

#### Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Topology	Control Mode	$f_{sw}$ Typ (kHz)	Stand-by Mode	UVLO (V)	Short Circuit Protection	Latch	Soft Start	$V_{cc}$ Max (V)	Drive Cap. (mA)	Package Type
NCV1362BADR2G		AEC Qualified PPAP Capable Pb-free Halide free	Product Preview	Flyback	Current Mode	No Clamp	Yes	6.5	Yes	Yes	Yes	28		SOIC-8
NCV1362BCDR2G		AEC Qualified PPAP Capable Pb-free Halide free	Product Preview	Flyback	Current Mode	110	Yes	6.5	Yes	Yes	Yes	28		SOIC-8

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