

Product Overview

NCP1362: Primary Side PWM Controller for Low Power Offline SMPS

For complete documentation, see the data sheet.

The NCP1362 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>

Benefits

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

Applications

- Low Power AC/DC Adapters
- Industrial Auxiliary Power

End Products

- Battery Chargers
- Set-top Box
- 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
NCP1362BADR2G		Pb-free Halide free non AEC-Q and PPAP	Product Preview	Flyback	Current Mode	80/110/140/No Clamp	Yes	Yes	Yes	Yes	Yes	28	300 / 500	SOIC-8
NCP1362BCDR2G		Pb-free Halide free non AEC-Q and PPAP	Product Preview	Flyback	Current Mode	80/110/140/No Clamp	Yes	Yes	Yes	Yes	Yes	28	300 / 500	SOIC-8

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

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