

## **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 < ±5%</li>
- Constant Current Primary-Side Regulation < ±5%

## **Applications**

- · Low Power AC/DC Adapters
- · Industrial Auxiliary Power

### **Benefits**

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

### **End Products**

- · Battery Chargers
- · Set-top Box
- · Auxiliary Power

| Part Electrical Specifications |                   |  |        |             |                 |                              |                      |             |                                    |       |               |                               |                       |                  |
|--------------------------------|-------------------|--|--------|-------------|-----------------|------------------------------|----------------------|-------------|------------------------------------|-------|---------------|-------------------------------|-----------------------|------------------|
| Product                        | Pricing (\$/Unit) | Compliance                             | Status | Topolo      | Control<br>Mode | f <sub>sw</sub> Typ<br>(kHz) | Stand-<br>by<br>Mode | UVLO<br>(V) | Short<br>Circuit<br>Protect<br>ion | Latch | Soft<br>Start | V <sub>CC</sub><br>Max<br>(V) | Drive<br>Cap.<br>(mA) | Packag<br>e Type |
| NCP1362AADR2G                  | 0.23              | Pb-free Halide free non AEC-Q and PPAP | NEW    | Flybac<br>k | Current<br>Mode | 80/110/<br>140/No<br>Clamp   | Yes                  | 6.5         | Yes                                | Yes   | Yes           | 28                            | 300 /<br>500          | SOIC-8           |
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For more information please contact your local sales support at www.onsemi.com.

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