

Synchronous Buck Converter With Power Good Detector & LDO

Features

- Operation Voltage 2.5V~6.0V
- Oscillation frequency 1MHz
- Output Current Maximum 400mA (DC-DC Converter)
- Built-In 400mA/LDO
- Power Good Indicator with Time Delay Adjustable
- Built-In Current Limit
- Built-In UVLO
- Built-In Thermal ShutDown

Applications

- Power Supply for Slim Type devices

General Description

The AT1362A/B/C provides complete control for a DC/DC converter optimized for high-performance microprocessor applications. It consists of a synchronous step-down DC/DC converter and a high-speed LDO regulator connected in series with the DC/DC converter output. A power good detector and LDO ON/OFF control is also built-in (metal option). DC/DC converter is operated on current mode architecture for excellent line and load transient response. 1MHz operation frequency is allowing the use of small surface mount inductor and capacitor. The internal synchronous switch increases efficiency and eliminates the need for an external schottky diode. The AT1362A/B/C is a family of low-noise synchronous step-down DC/DC converters that is ideally suited for systems powered from a 1-cell Li-ion battery or from a 3-cell to 4-cell NiCd, NiMH, or alkaline battery. It can also be used to USB-based power system.

Ordering Information

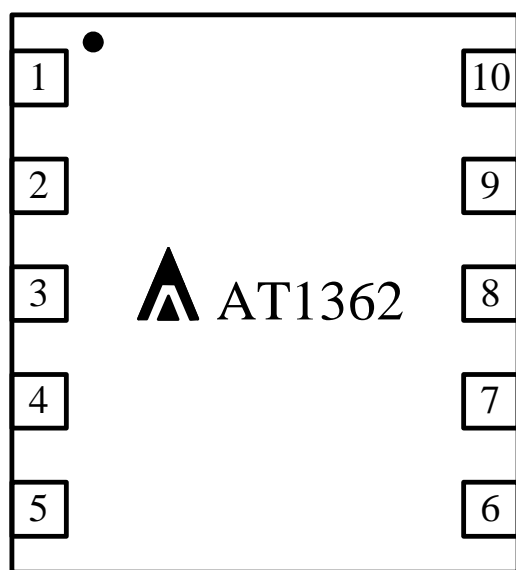
| Part Number | Package | Marking |
|-------------|-------------------|---------|
| 1362□N | TDFN3X3-10, Green | □□□□□ |

□ : A:AT1362AN B:AT1362BN C:AT1362CN

□□□□□ : Date Code

*For more marking information, contact our sales representative directly

Pin Assignment



TDFN3X3-10 (TOP VIEW)

| AT1362A | AT1362B | AT1362C |
|---------------|---------------|---------------|
| DC/DC 2.5V | DC/DC 1.8V | DC/DC 1.2V |
| LDO 3.3V | LDO 3.3V | LDO 3.3V |