# 1MHz, 3A Step Up Regulator

## General Description

PN2264 is an asynchronous PWM boost converter using a constant frequency peak current mode. An external Schottky diode is needed. At light load, PN2264 works in the light load mode. The supply current during the light mode is 100uA and less than 1uA in shutdown mode, together with the 130mΩ internal NMOS power transistor guarantees high efficiency in the whole output load current range. Up to 3A peak current, Let PN2264 can provide 1.5A output load current, which is suitable to use as MID and mobile power supply. The input voltage 2.5~5.5V.The operating frequency is internally set at 1MHz.

The device is available in the small profile SOT23-6L package.

## Applications

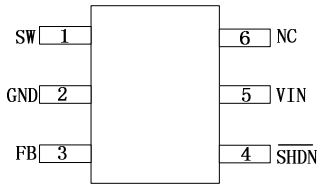
- WLED Drivers
- Networking cards powered from PCI or PCI-express slots
- MID and Mobile Power

## Features

- High Efficiency: Up to 92%
- 1.0MHz Constant Switching Frequency
- Switch current up to 3A
- Low Rdson: 0.13Ω
- Accurate Reference:0.6V
- Tiny External Components
- <1μA Shutdown Current
- Space Saving 6-Pin SOT23 Package

## Package

SOT23-6L




## Typical Application Circuit

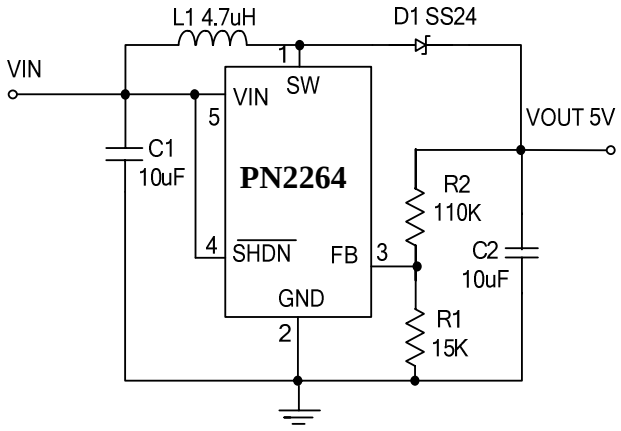



Figure 1. Basic Application Circuit with PN2264

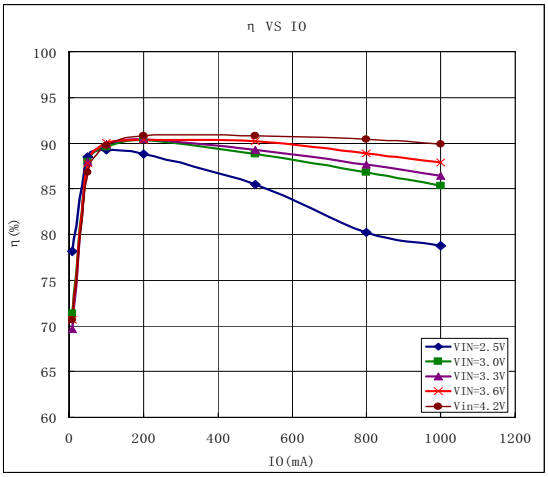



Figure 2. Typical Efficiency Curve