

1MHz, 2.5A Step-Up Current Mode PWM Converter

General Description

The EMH7070 is a current mode boost DC-DC converter. Its PWM circuitry with built-in 0.2Ω power MOSFET make this regulator highly power efficient. The internal compensation network also minimizes as much as 6 external component counts. The non-inverting input of error amplifier connects to a 0.6V precision reference voltage and internal soft-start function can reduce the inrush current.

The EMH7070 is available in the tiny package of SOT-23-6.

Features

- Adjustable Output up to 12V
- Internal Fixed PWM frequency: 1.0MHz
- Precision Feedback Reference Voltage: 0.6V (±2%)
- Internal 0.2Ω, 2.5A, 16V Power MOSFET
- Shutdown Current: 0.1μA
- Over Temperature Protection
- Over Voltage Protection
- Adjustable Over Current Protection: 0.5A ~ 2.5A
- Package: SOT-23-6L

Applications

- Chargers
- LCD Displays
- Digital Cameras
- Handheld Devices
- Portable Products

Typical Application

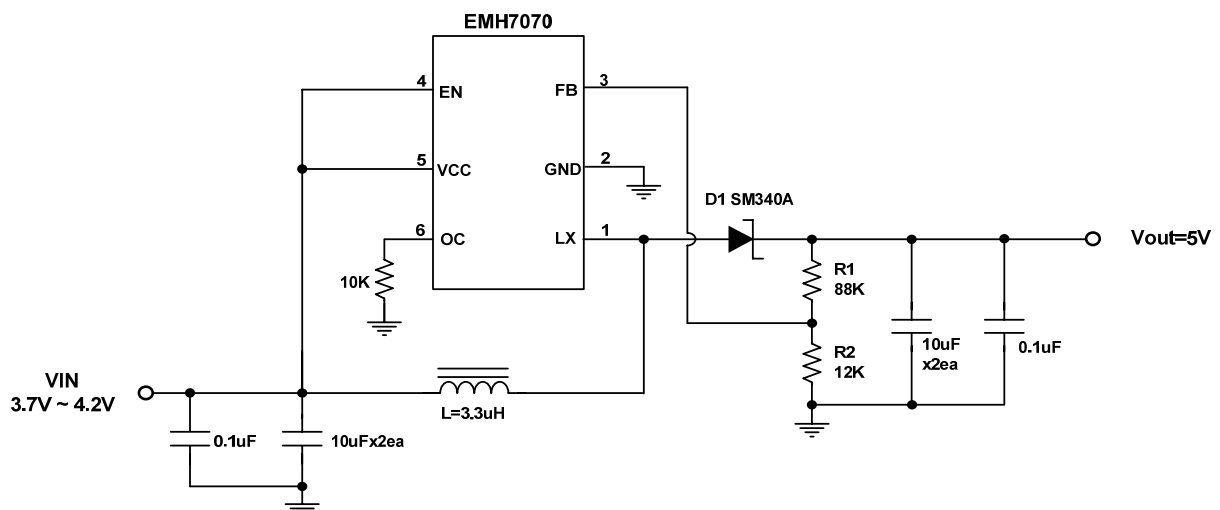
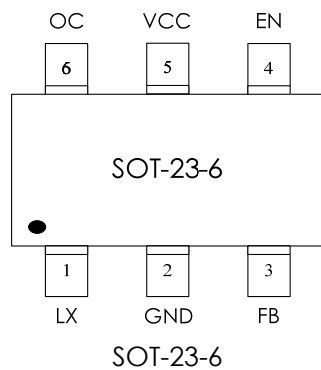


Fig. 1 EMH7070 application circuit

Package Configuration



EMH7070-00VN06NRR

00 Adjustable Output

VN06 SOT-23-6 Package

NRR RoHS & Halogen free package

Commercial Grade Temperature

Rating: -40 to 85°C

Package in Tape & Reel

Order, Mark & Packing information

Package	Vout(V)	Product ID	Marking	Packing
SOT-23-6	Adjustable	EMH7070-00VN06NRR		Tape & Reel 3K units

Functional Block Diagram

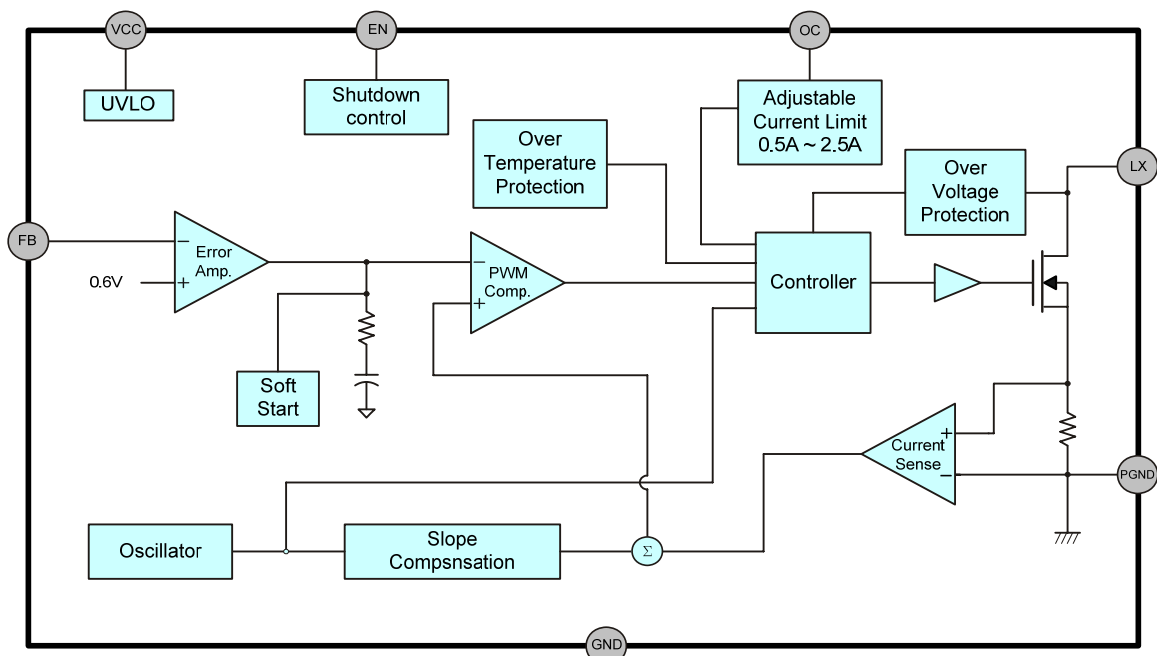


Fig. 2