Features

- High Efficiency: Up to 95%@V_{IN}=12V, V_O=5V
- 600kHz Frequency Operation
- 2.0A Output Current
- No Schottky Diode Required
- 4.5V to 18V Input Voltage Range
- 0.6V Reference
- Excellent Line and Load Transient Response
- Integrated Internal Compensation
- Stable with Low ESR Ceramic Output Capacitors
- Over Current Protection with Hiccup-Mode
- Input Over Voltage Protection (IOVP)
- Thermal Shutdown
- Inrush Current Limit and Soft Start
- Available in SOT23-6 Package
- -40°C to +85°C Temperature Range

Description

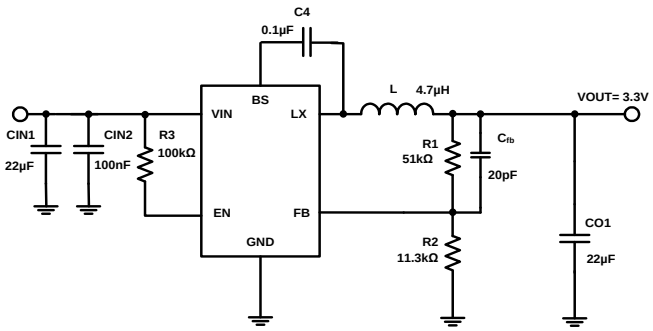
The TCS4123 is a fully integrated, high efficiency 2.0A synchronous rectified step-down converter. The TCS4123 offers two operation modes, PWM control and PFM Mode switching control, which allows a high efficiency over the wider range of the load.

The TCS4123 requires a minimum number of readily available standard external components and is available in a 6-pin SOT23 ROHS compliant package.

Application

- Distributed Power Systems
- Digital Set Top Boxes
- Flat Panel Television and Monitors
- Notebook computer
- Wireless and DSL Modems

Typical Application



Typical Application Circuits

Efficiency

V_{OUT}=3.3V, I_{OUT}=0.01A to 2A, T_A=25°C