

FEATURES

- . High Efficiency: Up to 94%
- . 2.3MHz Frequency Operation
- . 1.0A Output Current
- . Input OVP 6.1V
- . No Schottky Diode Required
- . 2.5V to 6V Input Voltage Range
- Output Voltage as Low as 0.6V
- . 100% Duty Cycle in Dropout
- . Low Quiescent Current: 40μA
- Slope Compensated Current Mode Control for Excellent Line and Load Transient Response
- Short Circuit Protection
- . Thermal Fault Protection
- Inrush Current Limit and Soft Start
- . Input over voltage protection (OVP)
- . <1µA Shutdown Current
- SOT23-5 Package

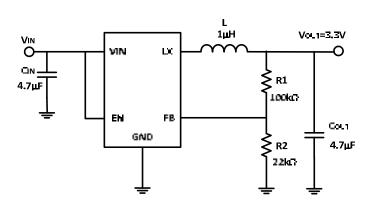
GENERAL DESCRIPTION

The TCS4011is a constant frequency, current mode PWM step-down converter. The device integrates a main switch and a synchronous rectifier for high efficiency without an external Schottky diode. It is ideal for powering portable equipment that runs from a single cell Lithium-Ion (Li+) battery. The output voltage can be regulated as low as 0.6V. The TCS4011can also run at 100% duty cycle for low dropout operation, extending battery life in portable system. This device offers two operation modes, PWM control and PFM Mode switching control, which allows a high efficiency over the wider range of the load.

APPLICATIONS

- . Cellular and Smart Phones
- . Wireless and DSL Modems
- . PDA/MID/PAD
- . Digital Still and Video Cameras

APPILCATIONS



Efficiency

V_{OUT}=3.3V, T_A=25°C

