2A SYNCHRONOUS BUCK SWITCHER WITH FET ON BOARD

ADVANCE DATA SHEET

DESCRIPTION

The NX4120 is an integrated 2A monolithic step-down switch regulator with internal compensation. It operates from 2.7V to 4.2V which is ideal for the application with single cell Li-Ion battery as well as other 3.3V input bus supply applications.

NX4120 is a current mode PWM controller with 0.8V internal reference voltage. It can be selected to operate in synchronous mode for continuous fixed PWM or non-synchronous mode to improve the efficiency at light load. In this mode during extreme light load, a pulse-skip scheme is employed to further improve the efficiency at and extend the battery life.

NX4120 is packaged in 10-lead MLPD package with excellent thermal capability as well as small footprint area.

FEATURES

- 10-pin MPLD package
- Internal Start Up
- Internally-compensated Current mode controller
- <1uA shut-down current
- Peak Current Limit and Over temperature protection
- Prebias start up
- Hiccup over current protection
- Selectable synchronous or non-synchronous operation

APPLICATIONS

- Li-Ion battery operated system
- Cellular Phones
- Portable applications
- FPGA Supply

TYPICAL APPLICATION

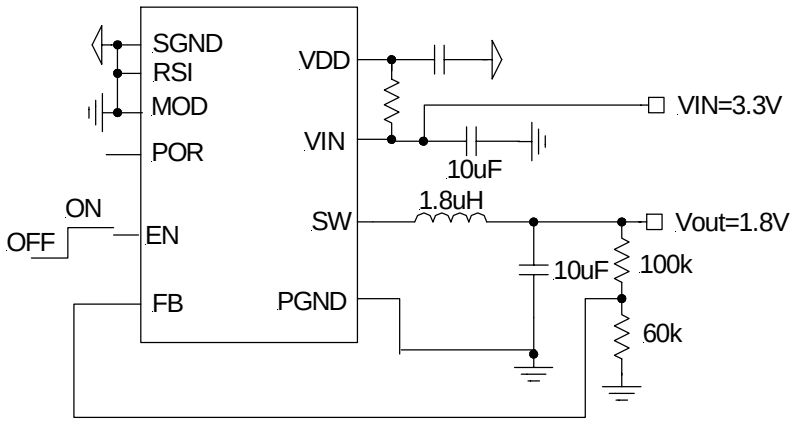

Figure1 - Typical application of NX4120

ORDERING INFORMATION

Device	Temperature	Package	Frequency
NX4120CMTR	0 to 70°C	MLPD-10L	600kHz
NX4120ACMTR	0 to 70° C	MPLD-10L	1200kHz