

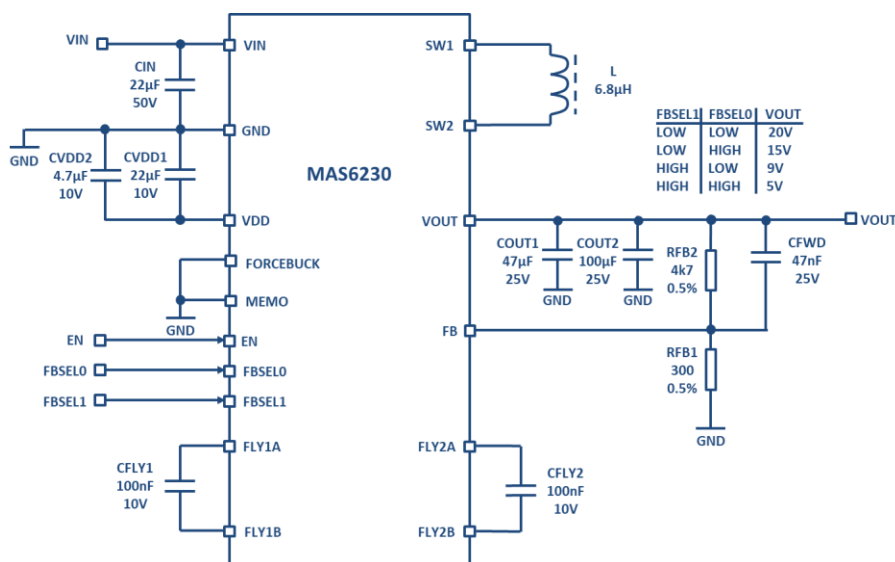
Micro Analog Systems releases High Efficiency 60W Synchronous Buck-Boost DC/DC Converter

Targeted for USB-C PD car chargers

Helsinki, Finland – 17 May 2019 - Micro Analog Systems Oy today announced MAS6230, a High Efficiency 60W Synchronous Buck-Boost DC/DC Converter primarily intended for USB-PD car charger and industrial applications.

MAS6230 is a high efficiency synchronous buck-boost DC/DC converter IC with integrated switches. This makes external power switches unnecessary and offers a small size power supply solution for USB-PD car charger applications. Wide input voltage range from 7V to 36V allows using MAS6230 in both 12V and 24V car battery systems and covers wide range of industrial applications. The output voltage is adjustable from 4V to 20V by two external resistors. There are two control pins which make it possible to select output voltage from four voltage options such as 5V, 9V, 15V and 20V.

The buck-boost DC/DC converter achieves over 90% efficiencies and can delivery up to 60W output power. The maximum output current is 3A in buck mode. MAS6230 integrates over temperature (OTP) and output overvoltage protection (OVP) circuitry to prevent damage under fault conditions.



FEATURES

- Wide input voltage range from 7V to 36V
- Output voltage adjustable by 2 external resistors from 4V to 20V
- Four output voltage options selectable by two input pins
- Up to 60W output power
- Over 90% efficiency
- Up to 3A output current (buck mode)
- Low inductance value inductor
- Automatic transition between buck and boost modes
- Over temperature protection
- Output overvoltage protection
- Low quiescent current
- Thin 7x7x0.75 mm QFN-48 package

MAS6230 is available in a thin DFN-48 7x7x0.75 mm package. For further information and samples please contact Micro Analog Systems Oy.

About Micro Analog Systems

Founded in 1984, Micro Analog Systems Oy is a privately owned fabless semiconductor house located in Helsinki, Finland. MAS supplies Application Specific Standard Parts and ASICs for worldwide customer base. MAS current product portfolio consists of piezo driver ICs, time signal receiver ICs, crystal oscillator ICs, sensor interface ICs and power management ICs as well as of other high performance analog ICs.

For More Information

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