imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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NP405-00001-5v0-E

ASSP for Power Supply Applications 6MHz Synchronous Rectification Buck-Boost DC/DC Converter IC MB39C326

MB39C326 was designed for the RF power amplifier of the mobile device that used 1-cell Li-ion battery. It is high-efficiency and low noise 6 MHz buck-boost DC/DC converter IC. The size of the inductor can be greatly reduced to 2-3MHz existing product by operating by the high frequency of 6MHz. Therefore, it becomes possible to reduce the substrate area of the power supply part by half. The range of the voltage that can be used can be expanded by automatic switching operation of the buck-boost circuit, and a steady power supply to the power amplifier can be supplied.

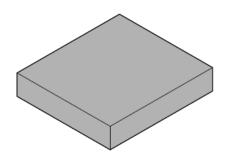
DESCRIPTION

- High efficiency : Up to 95%
- Input voltage range : 2.5 V to 5.5 V
- Adjustable output voltage range : 0.4 V to 5.0 V
- Input current limit value : 2 A/1A/0.5A
- Output current : 1200mA (Buck, output at 3.3V)
 - : 800mA (Boost, output at 3.3V)
- 6MHz PWM operation allows 0.5 μH small form inductor
- Less than 20 µs step response for 3G
- Automatic Transition between buck mode and boost mode
- Selectable output voltage with external resistor
- Built-in Over temperature protection circuit
- Built-in Under voltage lockout protection circuit
- Package : 20pin, WL-CSP(2.15mm × 1.94 mm × 0.625mm)

APPLICATIONS

- Products that use 1-cell lithium batteries for the power supply
- RF power amplifier
- Cell-phone
- RF-PC card, PDA

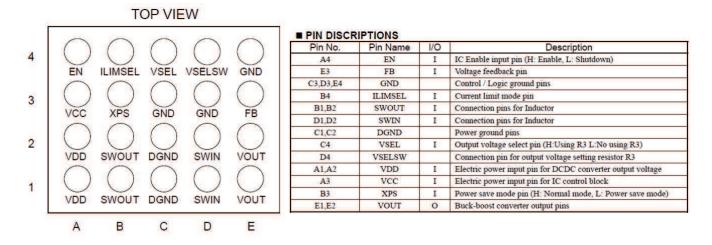
■ PACKAGE: 20-pin plastic WL-CSP



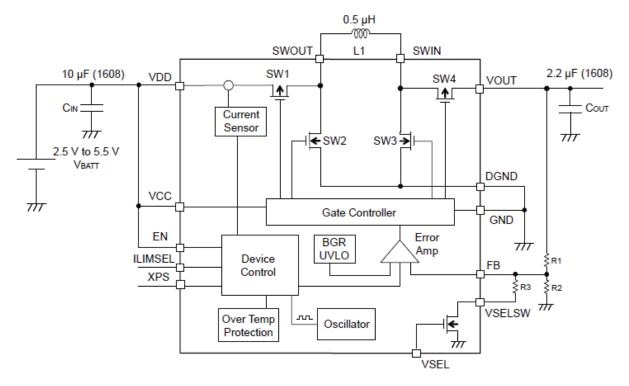


MB39C326

■ PIN ASSIGNMENTS



BLOCK DIAGRAM



ORDERING INFORMATION

Part number	Packege	Remarks
MB39C326PW	20-pin plastic WL-CSP (WLP-20P-M01) 0.4 mm-ball-pitch 2.15×1.94 mm	-

The contents of this document are subject to change without notice.