



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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Product Overview

FAN54161: 6A Direct-Charger with Advanced Safety Monitoring

For complete documentation, see the data sheet.

The FAN54161UCX is a low loss direct charger which charges the battery safely at 6 A and provides active protection, regulation and monitoring features.

Integrated Protection and Regulation features control a pair of MOSFETs to ensure that the FAN54161UCX output voltage and current stay within a safe programmed operating range. Configurable hardware based safety features turn off the MOSFET in the event of a fault and notify the system.

An integrated 10-bit Analog-to-Digital Converter (ADC) provides real-time monitoring of input, output voltage, currents and temperature so that the system host or microcontroller can effectively use this information to optimize adapter and charger configuration.

Features

- Integrated Back-to-Back Common Source N-channel MOSFETs with Combined RON = 11 mΩ
- Maximum Input Voltage Tolerance of +22 V
- Reverse Input Voltage Tolerance of -2 V
- External N-channel MOSFET Drive Capability with Tolerance up to +32 V
- Regulation Modes (Charge Current, Input Current, Output Voltage, Battery Cell Voltage)
- Hardware-based Safety Protections (Input Over-Voltage, Input Under-Voltage, Output Over-Voltage, Input Over-Current, Die Over-Temperature, Internal Switch Short)

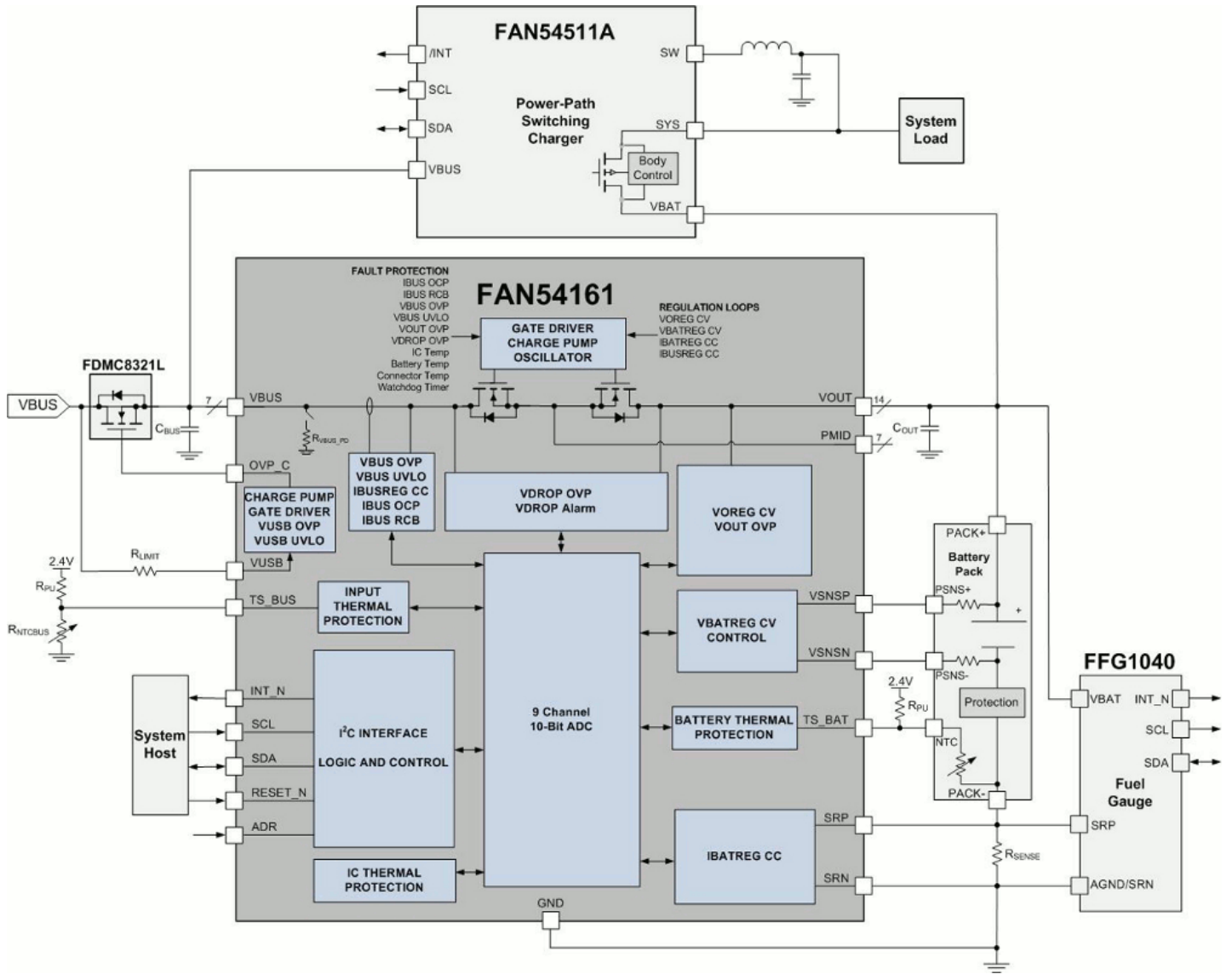
Applications

- Mobile Devices
- Tablets

Part Electrical Specifications

Product	Compliance	Status	Type	Number of Cells Charged	V _{CC} Min (V)	V _{CC} Max (V)	I _D Max (μA)	Package Type
FAN54161UCX	Pb-free Halide free	Active	Li-Ion/Polymer	1	3	6.4	5.5	WLCSP-42

Application Diagram



For more information please contact your local sales support at www.onsemi.com.

Created on: 10/3/2018