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Please note: As part of the Fairchild Semiconductor integration, some of the Fairchild orderable part numbers will need to change in order to meet ON Semiconductor's system requirements. Since the ON Semiconductor product management systems do not have the ability to manage part nomenclature that utilizes an underscore (_), the underscore (_) in the Fairchild part numbers will be changed to a dash (-). This document may contain device numbers with an underscore (_). Please check the ON Semiconductor website to verify the updated device numbers. The most current and up-to-date ordering information can be found at www.onsemi.com. Please email any questions regarding the system integration to Fairchild <a href="general-regarding-numbers-n

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FAN48614 Fixed-Output Synchronous TinyBoost® Regulator

Features

■ Input Voltage Range: 2.7 V to 4.5 V

Output Voltage: 5.0 V

Internal Synchronous Rectification

True Load Disconnect

Short-Circuit Protection

Three External Components

Applications

- Class-D Audio Amplifier
- Boost for Low-Voltage Li-Ion Batteries
- Smart Phones, Tablets, Portable Devices
- RF Applications

Description

The FAN48614 is a low-power boost regulator designed to provide a minimum voltage-regulated rail from a standard single-cell Li-lon battery and advanced battery chemistries. The combination of built-in power transistors, synchronous rectification, and low supply current suit the FAN48614 for battery-powered applications.

Additional Information

For the full datasheet, please contact a Fairchild Sales Representative.

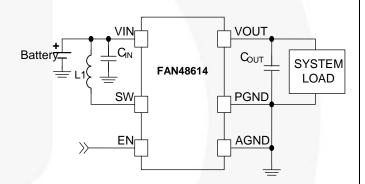


Figure 1. Typical Application

Ordering Information

Part Number	V _{OUT}	Operating Temperature	Packing
FAN48614BUC50X	5.0 V	-40°C to 85°C	Tape and Reel





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SuperSOT™-8
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SyncFET™
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Definition of Terms

Definition of Terms			
Datasheet Identification	Product Status	Definition	
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Preliminary	First Production	Datasheet contains preliminary data; supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve design.	
No Identification Needed	Full Production	Datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve the design.	
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