

Product Overview

FAN48615: Fixed-Output Synchronous TinyBoost® Regulator

For complete documentation, see the data sheet.

The FAN48615 is a low-power PWM only boost regulator designed to provide a minimum voltage-regulated rail from a standard single-cell Li-Ion battery and advanced battery chemistries. Even below the minimum system battery voltage, the device maintains the output voltage regulation for an output load current of 1000 mA. The combination of built-in power transistors, synchronous rectification, and low supply current suit the FAN48615 for battery-powered applications.

The FAN48615 is available in a 9-bump, 0.4 mm pitch, (1.215 x 1.215 mm) Wafer-Level Chip-Scale Package (WLCSP).

Features

- Input Voltage Range: 2.7 V to 4.5 V
- Output Voltage: 5.25 V and 5.4 V
- 1000 mA Max. Load Capability
- PWM Only
- Up to 97% Efficient
- Forced Pass-Through Operation via EN Pin
- Internal Synchronous Rectification
- True Load Disconnect
- Short-Circuit Protection
- Three External Components: 2016 (Metric) 0.47 μ H Inductor, 0402 Input and 0603 Output Capacitors

For more features, see the data sheet

Part Electrical Specifications

Product	Compliance	Status	Topology	Control Mode	V _{CC} Min (V)	V _{CC} Max (V)	V _O Typ (V)	I _O Typ (A)	Efficiency (%)	f _{sw} Typ (kHz)	Package Type
FAN48615UC08X	Pb-free Halide free	Active	Step-Up	Voltage Mode	2.7	4.5	5.25	1	97	2300	WLCSP-9
FAN48615UC11X	Pb-free Halide free	Active	Step-Up	Voltage Mode	2.7	4.5	5.4	1	97	2300	WLCSP-9

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

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