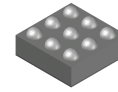


Regulator - Fixed-Output, Synchronous, TINYBOOST®

FAN48614


WLCSP9 1.215x1.215x0.581
CASE 567QW

Description

The FAN48614 is a low-power boost regulator designed to provide a minimum voltage-regulated rail from a standard single-cell Li-Ion 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.

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

Additional Information

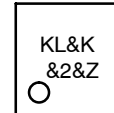
- For the full datasheet, please contact a onsemi Sales Representative.

ORDERING INFORMATION

Part Number	V _{OUT}	Operating Temperature	Package	Packing Method†
FAN48614BUC50X	5.0 V	-40 to 85°C	WLCSP9 1.215x1.215x0.581 (Pb-Free and Halide Free)	3000 / Tape and Reel

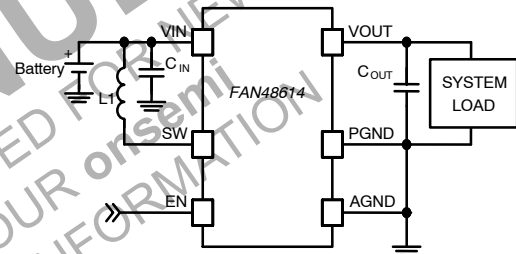
†For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

MARKING DIAGRAM

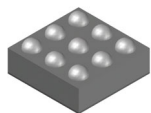


KL = Specific Device Code
&K = 2-Digits Lot Run Traceability Code
&2 = 2-Digit Date Code
&Z = Assembly Plant Code

TYPICAL APPLICATION

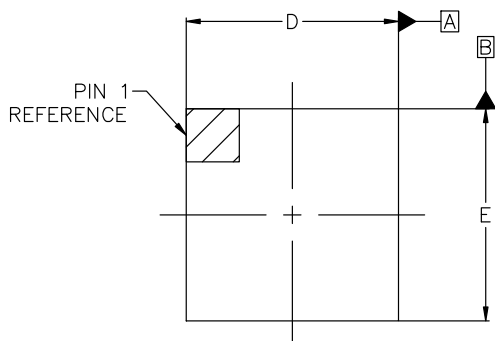


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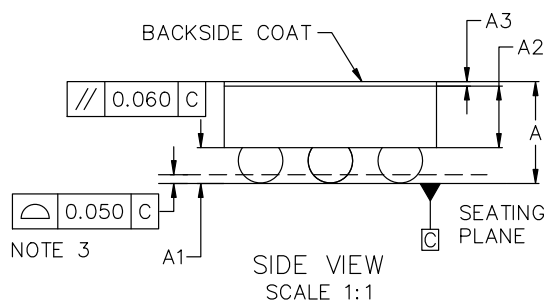


WLCSP-9 1.22x1.22x0.38, 0.40P
CASE 567QW
ISSUE C

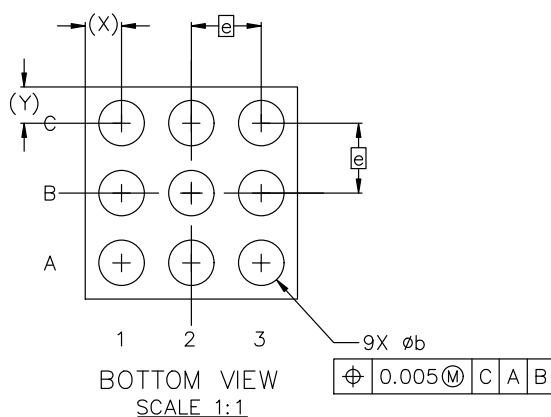
DATE 11 MAY 2026



TOP VIEW
SCALE 1:1

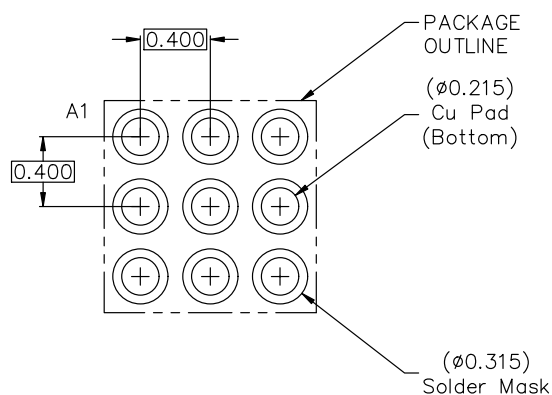


SIDE VIEW
SCALE 1:1



BOTTOM VIEW
SCALE 1:1

DIM	MILLIMETERS		
	MIN.	NOM.	MAX.
A	0.542	0.581	0.620
A1	0.183	0.203	0.223
A2	0.335	0.353	0.371
A3	0.022	0.025	0.027
b	0.240	0.260	0.280
D	1.185	1.215	1.245
E	1.185	1.215	1.245
e	0.400 BSC		
X	0.208 REF.		
Y	0.208 REF.		



RECOMMENDED MOUNTING FOOTPRINT

*FOR ADDITIONAL INFORMATION ON OUR Pb-FREE STRATEGY AND SOLDERING DETAILS, PLEASE DOWNLOAD THE ONSEMI SOLDERING AND MOUNTING TECHNIQUES REFERENCE MANUAL, SOLDERRM/D.

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DESCRIPTION:	WLCSP-9 1.22x1.22x0.38, 0.40P	PAGE 1 OF 1

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