

A

B

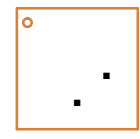
3136



6 A

NCP3136 is a fully integrated synchronous buck converter for 3.3 V and 5 V step down applications. It can provide up to 6.5 A instantaneous current. NCP3136 supports high efficiency, fast transient response and provides power good indicator. The control scheme includes two operation modes: FCCM and automatic CCM/DCM. In automatic CCM/DCM mode, the controller can smoothly switch between CCM and DCM, where converter runs at reduced switching frequency with much higher efficiency. NCP3136 is available in 3 mm x 3 mm QFN16 pin package.

□□□□□□ □□□□□□

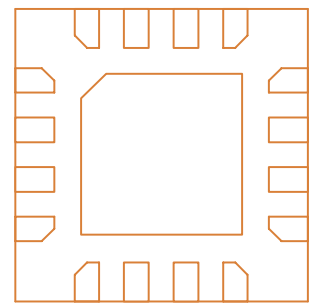


□□□□□□

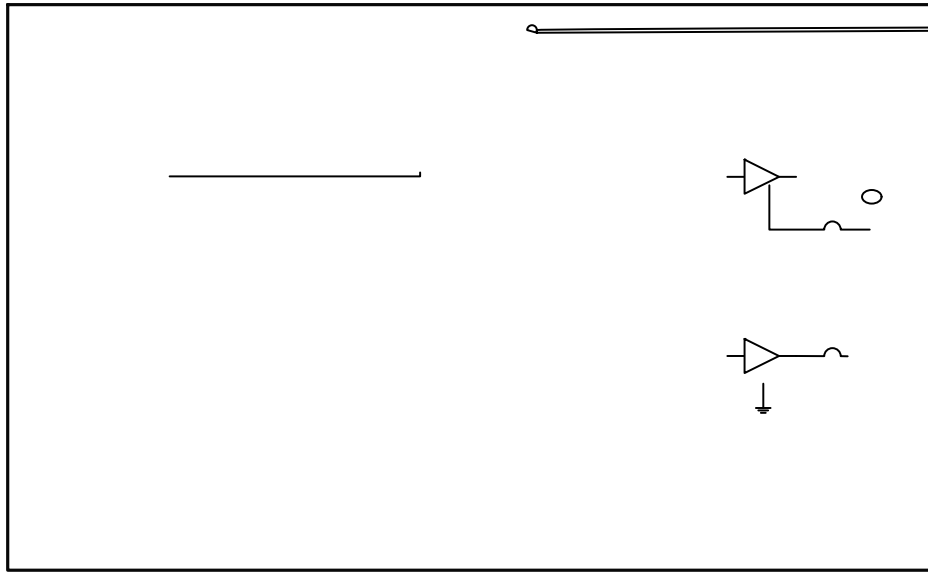
- High Efficiency in Both CCM and DCM
- Operation Frequency: 1.1 MHz
- Support MLCC Output Capacitor
- Small Footprint, 3 mm x 3 mm, 16 pin QFN Package
- 2.9 V to 5.5 V Wide Conversion Voltage Range
- Output Voltage Range from 0.6 V to 0.84 X V_{IN}
- Automatic Power Saving Mode
- Voltage Mode Control
- Support Pre bias Start up Functionality
- Output Discharge Operation
- Over Temperature Protection
- Built in Over Voltage, Under Voltage and Over Current Protection
- Power Good Indicator
- This Device is Pb



□□□□□□ □□□□□□



□□□□□□□□



□□□□□□□□□□□□□□□□

□□□□□□

□□□□□□ □□□□□□ □□□□□□

□□□□ □□□□	□□□□□□□□	□□□□□		□□□□
		□ □	□ □	
		-		
		-		

□□□□□□

□□□□□□□□□□□□

□

□□□□□□□□ □□□□□□□□□□□□

□□□□ □□□□	□□□ □□□	□□□□□□□□□□□□	□ □	□□□	□ □□	□□□□
-----------	---------	--------------	-----	-----	------	------

□□□□ □□□□□□ □□□□□□ □□□ □□□□□□□□

□□□□□□□□□□	□□□□□□□□□□	□□□□□□□□□□□□	□ □	□□□	□ □□	□□□□
		□□□□□□□□□□□□	□ □	□□□	□ □□	□□□□
□□□□□□□□□□						

□□□□□□



□□□□□□

□□□□□□□□□□□□

□

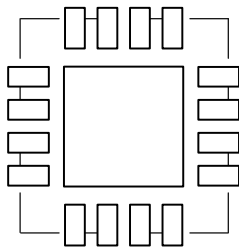
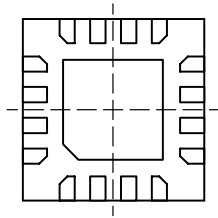
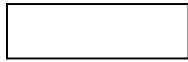
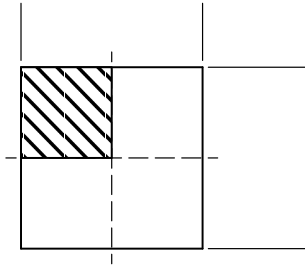
QFN16 3x3, 0.5P
CASE 485DA
ISSUE A

SCALE 2:1

DATE 22 SEP 2015

NOTES:

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. DIMENSION *b* APPLIES TO PLATED TERMINAL AND IS MEASURED BETWEEN 0.15 AND 0.30 MM FROM THE TERMINAL TIP.
4. COPLANARITY APPLIES TO THE EXPOSED PAD AS WELL AS THE TERMINALS.



onsemi, **onsemi**, and other names, marks, and brands are registered and/or common law trademarks of Semiconductor Components Industries, LLC dba "**onsemi**" or its affiliates and/or subsidiaries in the United States and/or other countries. **onsemi** owns the rights to a number of patents, trademarks, copyrights, trade secrets, and other intellectual property. A listing of **onsemi**'s product/patent coverage may be accessed at www.onsemi.com/site/pdf/Patent-Marking.pdf. **onsemi** reserves the right to make changes at any time to any products or information herein, without notice. The information herein is provided "as-is" and **onsemi** makes no warranty, representation or guarantee regarding the accuracy of the information, product features, availability, functionality, or suitability of its products for any particular purpose, nor does **onsemi** assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. Buyer is responsible for its products and applications using **onsemi**
