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**FINAL PRODUCT/PROCESS CHANGE NOTIFICATION #20185**

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**Issue Date:** 20-Aug-2013

**TITLE:** Qualification of Deca Technologies Philippines for Bump Processing

**PROPOSED FIRST SHIP DATE:** 20-Nov-2013

**AFFECTED CHANGE CATEGORY(S):**

**FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:**

Contact your local ON Semiconductor Sales Office or <[todd.manes@onsemi.com](mailto:todd.manes@onsemi.com)>

**SAMPLES:** Contact your local ON Semiconductor Sales Office

**ADDITIONAL RELIABILITY DATA:** Available

Contact your local ON Semiconductor Sales Office or <[ken.fergus@onsemi.com](mailto:ken.fergus@onsemi.com)>

**NOTIFICATION TYPE:**

Final Product/Process Change Notification (FPCN)

Final change notification sent to customers. FPCNs are issued at least 90 days prior to implementation of the change.

ON Semiconductor will consider this change approved unless specific conditions of acceptance are provided in writing within 30 days of receipt of this notice. To do so, contact <[quality@onsemi.com](mailto:quality@onsemi.com)>.

**DESCRIPTION AND PURPOSE:**

ON Semiconductor is pleased to announce a capacity expansion qualification of Deca Technologies, located in Laguna, Philippines, as an additional source for bump processing. Bump processing is currently performed at Flip Chip International, located in Phoenix, Arizona. Upon expiration (or early customer approval), bump processing may occur at either Deca Technologies or Flip Chip International.

Deca is certified to be compliant to ISO-9001 and ISO-14001.

All other process steps (wafer fab, test, tape and reel) will continue to occur in existing qualified locations. No changes to these process steps or locations are being made.



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**RELIABILITY DATA SUMMARY:**

**Reliability Test Results:**

**Qual Vehicle = NCP2993FCT2G (Bump on I/O):**

<b>Test</b>	<b>Conditions</b>	<b>Results</b>
High-Temp Op-Life	TA=125C, 504 hours 1008 hours	1 lot Pass 1 lot Pass
High-Temp Storage Life	TA=150C, 504 hours 1008 hours	3 lots Pass 3 lots Pass
Temperature Humidity Bias	TA=85C, RH=85% 504 hours 1008 hours	1 lot Pass 1 lot Pass
Temperature Cycle	TA=-65C/+150C, 500 cycles 1000 cycles	3 lots Pass 3 lots Pass

**Qual Vehicle = NCP2815AFCT2G (Re-distribution Layer):**

<b>Test</b>	<b>Conditions</b>	<b>Results</b>
High-Temp Storage Life	TA=150C, 504 hours 1008 hours	3 lots Pass 3 lots Pass
Temperature Cycle	TA=-65C/+150C, 500 cycles 1000 cycles	3 lots Pass 3 lots Pass

**ELECTRICAL CHARACTERISTIC SUMMARY:**

There are no changes to electrical performance of products affected by this notification.

**CHANGED PART IDENTIFICATION:**

Parts processed at Deca Technologies will include marking character "d" in the date code marking. Parts processed at Flip Chip International will continue to include marking character "F" in the date code.

**List of affected General Parts:**

NCP1851AFCCT1G  
NCP1852AFCCT1G  
NCP2993FCT2G