



PRODUCT AND PROCESS CHANGE NOTIFICATION

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ISSUE DATE: 27-Jun-2016
NOTIFICATION: 17176
TITLE: VFxxx Controller (Vybrid) Revision Update
EFFECTIVE DATE: 25-Sep-2016

DEVICE(S)

MPN
MVF30NN151CKU26
MVF30NS151CKU26
MVF50NN151CMK40
MVF50NN151CMK50
MVF50NS151CMK40
MVF50NS151CMK50
MVF51NN151CMK50
MVF51NS151CMK50
MVF60NN151CMK40
MVF60NN151CMK50
MVF60NS151CMK40
MVF60NS151CMK50
MVF60NS152CMK50
MVF61NN151CMK50
MVF61NS151CMK50
MVF62NN151CMK40
PC667338CMK50
PVF60GS151CMK40
PVF60NN151CMK50
PVF60NS151CMK50
SVF311R3K1CKU2
SVF312R3K1CKU2
SVF321R3K1CKU2
SVF321R3K2CKU2
SVF322R3K1CKU2

SVF331R3K1CKU2
SVF331R3K1CKU2R
SVF331R3K2CKU2
SVF331R3K2CKU2R
SVF332R3K1CKU2
SVF332R3K1CKU2R
SVF511R3K1CMK4
SVF511R3K2CMK4
SVF512R3K1CMK4
SVF521R3K1CMK4
SVF522R2K1CMK4
SVF522R3K1CMK4
SVF522R3K2CMK4
SVF531R3K1CMK4
SVF532R2K1CMK4
SVF532R2K1CMK4R
SVF532R2K2CMK4
SVF532R2K2CMK4R
SVF532R3K1CMK4

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AFFECTED CHANGE CATEGORIES

- DESIGN CHANGE

DESCRIPTION OF CHANGE

A silicon revision has been completed for the VFxxx Controller (Vybrid) family of products to improve the performance of the device. VFxxx Controller mask number 2N02G will change to 3N02G. This will be the mask marking on the device. For customers who wish to migrate to the new revision they can follow the orderable part number instructions in the PCN for sampling.

REASON FOR CHANGE

In certain applications the VFxxx Controller(Vybrid) deviates from NXP's recommended power supply design guidelines resulting in the system failure to boot. The 3N02G silicon design revision eliminates this marginality and solves the system boot issue.

Current Mask Revision Marking
2N02G

New Mask Revision Marking
3N02G

Existing Customer Part Number	Sample 3N02G Part Number
SVF311R3K1CKU2 SVF312R3K1CKU2 SVF321R3K1CKU2 SVF322R3K1CKU2 SVF331R3K1CKU2 SVF332R3K1CKU2	KVF332R3K2CKU2
SVF511R3K1CMK4 SVF512R3K1CMK4 SVF521R3K1CMK4 SVF522R2K1CMK4 SVF522R3K1CMK4 SVF531R3K1CMK4 SVF532R2K1CMK4	KVF532R3K2CMK4
MVF30NN151CKU26 MVF30NS151CKU26	KVF30NS152CKU26
MVF50NN151CMK40 MVF50NS151CMK40 MVF50NN151CMK50 MVF50NS151CMK50 MVF51NS151CMK50 MVF60NN151CMK40 MVF60NS151CMK40 MVF60NN151CMK50 MVF61NN151CMK50 MVF61NS151CMK50 MVF62NN151CMK4	KVF61NS152CMK5

Part Number 2N02G	Orderable Part Number 3N02G
SVF321R3K1CKU2	SVF321R3K2CKU2
SVF331R3K1CKU2	SVF331R3K2CKU2
SVF522R3K1CMK4	SVF522R3K2CMK4
SVF532R2K1CMK4	SVF532R2K2CMK4
MVF51NN151CMK50	MVF51NN152CMK50

MVF60NS151CMK50	MVF60NS152CMK50
SVF311R3K1CKU2	SVF311R3K2CKU2
SVF312R3K1CKU2	SVF312R3K2CKU2
SVF322R3K1CKU2	SVF322R3K2CKU2
SVF332R3K1CKU2	SVF332R3K2CKU2
SVF511R3K1CMK4	SVF511R3K2CMK4
SVF512R3K1CMK4	SVF512R3K2CMK4
SVF521R3K1CMK4	SVF521R3K2CMK4
SVF522R2K1CMK4	SVF522R2K2CMK4
SVF531R3K1CMK4	SVF531R3K2CMK4
SVF532R3K1CMK4	SVF532R3K2CMK4
MVF30NN151CKU26	MVF30NN152CKU26
MVF30NS151CKU26	MVF30NS152CKU26
MVF50NN151CMK40	MVF50NN152CMK40
MVF50NS151CMK40	MVF50NS152CMK40
MVF50NN151CMK50	MVF50NN152CMK50
MVF50NS151CMK50	MVF50NS152CMK50
MVF51NS151CMK50	MVF51NS152CMK50
MVF60NN151CMK40	MVF60NN152CMK40
MVF60NS151CMK40	MVF60NS152CMK40
MVF60NN151CMK50	MVF60NN152CMK50
MVF61NN151CMK50	MVF61NN152CMK50
MVF61NS151CMK50	MVF61NS152CMK50
MVF62NN151CMK4	MVF62NN152CMK4

ANTICIPATED IMPACT OF PRODUCT CHANGE(FORM, FIT, FUNCTION, OR RELIABILITY)

No hardware changes are needed with the new device. The mask revision will change and software updates may be needed to identify the new revision in the customer board support package (BSP). No other changes to form, fit, function or reliability.

According to JEDEC Standard JESD46, lack of acknowledgement of this PCN within 30 days will be considered acceptance of change. To request further data or inquire about the notification, please enter a [Support Case](#). **Be aware that after you select this link to enter your request, you must choose the topic "Product Change Notification" once on the Salesforce page.**

For sample inquiries - please go to www.nxp.com

QUAL DATA AVAILABILITY DATE: 13-May-2016

QUALIFICATION STATUS: COMPLETED

QUALIFICATION PLAN:

N/A

RELIABILITY DATA SUMMARY:

N/A

ELECTRICAL CHARACTERISTIC SUMMARY:

N/A

CHANGED PART IDENTIFICATION:

The following marking will change on the device in addition to the orderable part number.

Existing Mask Revision Marking
2N02G

New Mask Revision Marking
3N02G

SAMPLE AVAILABILITY DATE: 13-May-2016

ATTACHMENT(S):

External attachment(s) FOR this notification can be viewed AT:

[17176_VFxxx_Controller_PCN_17176_Qual_Report.pdf](#)

[17176_PCN17176_Delta_Qualification_Matrix_.pdf](#)

[17176_Copy_of_Vybrid_1_3_CofDC_Rev_G.pdf](#)
