



Final Product Change Notification

201807016F01

Issue Date: 16-Aug-2018
Effective Date: 13-Nov-2018

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QUALITY

Management Summary

NXP Semiconductors is announcing a new version of silicon for MC56F82xxx. The new silicon mask revision will be 3N33G.

Change Category

- | | | | | |
|----------------------------------------------|---------------------------------------------|----------------------------------------------------|-----------------------------------------|--------------------------------------------------------------------|
| <input type="checkbox"/> Wafer Fab Process | <input type="checkbox"/> Assembly Process | <input type="checkbox"/> Product Marking | <input type="checkbox"/> Test Location | <input checked="" type="checkbox"/> Design |
| <input type="checkbox"/> Wafer Fab Materials | <input type="checkbox"/> Assembly Materials | <input type="checkbox"/> Mechanical Specification | <input type="checkbox"/> Test Process | <input checked="" type="checkbox"/> Errata |
| <input type="checkbox"/> Wafer Fab Location | <input type="checkbox"/> Assembly Location | <input type="checkbox"/> Packing/Shipping/Labeling | <input type="checkbox"/> Test Equipment | <input checked="" type="checkbox"/> Electrical spec./Test coverage |
| <input type="checkbox"/> Firmware | <input type="checkbox"/> Other | | | |

MC56F82xxx Maskset Update to 3N33G for Design Fix

Description of Change

NXP Semiconductors is announcing a new version of silicon for the MC56F82xxx. The new silicon mask revision will be 3N33G.

The mask revision introduces a PMC design update to improve Power On Reset performance when residual voltage on the VDD power supply exceeds 200mV.

Please contact your NXP sales or marketing representative for additional information.

The datasheet has been updated to Rev. 4, 07/2018 and the errata has been updated to Rev. 02 Aug 2018. The revision history included in the updated documents provides a detailed description of the changes.

Below two errata were added:

e9432

e11484 (fixed in mask 3N33G)

The updated Datasheet and Errata of MC56F82xxx can be found at:
https://www.nxp.com/products/processors-and-microcontrollers/additional-processors-and-mcus/digital-signal-controllers/mc56f823xx-and-mc56f827xx-digital-signal-controllers:MC56F827xx?fpsp=1&tab=Documentation_Tab

Reason for Change

The release of MC56F82xxx new maskset 3N33G introduces a PMC POR design fix.

Identification of Affected Products

Top side marking

The mask set marking on the package will change from 2N33G to 3N33G.

Product Availability

Sample Information

Samples are available from 07-Aug-2018

The following sample part numbers are available:

PC56F82748VLH

PC56F82746MLF

PC56F82733MFM

For samples with other part numbers, NXP will deliver within 4 weeks after we receive the request.

Production

Planned first shipment 13-Nov-2018

Anticipated Impact on Form, Fit, Function, Reliability or Quality

No impact on form, fit, function, reliability or quality.

Data Sheet Revision

A new datasheet will be issued

Disposition of Old Products

Existing inventory will be shipped until depleted

Timing and Logistics

In compliance with JEDEC J-STD-046, your acknowledgement of this change is expected by 15-Sep-2018.

Contact and Support

For all inquiries regarding the ePCN tool application or access issues, please contact NXP "Global Quality Support Team".

For all Quality Notification content inquiries, please contact your local NXP Sales Support team.

For specific questions on this notice or the products affected please contact our specialist directly:

Name Xuena Liu

Position Product Engineer

e-mail address xuena.liu@nxp.com

At NXP Semiconductors we are constantly striving to improve our product and processes to ensure they reach the highest possible Quality Standards.

Customer Focus, Passion to Win.

NXP Quality Management Team.

About NXP Semiconductors

NXP Semiconductors N.V. (NASDAQ: NXPI) provides High Performance Mixed Signal and Standard Product solutions that leverage its leading RF, Analog, Power Management, Interface, Security and Digital Processing expertise. These innovations are used in a wide range of automotive, identification, wireless infrastructure, lighting, industrial, mobile, consumer and computing applications.

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NXP Semiconductors

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Changed Orderable Part#	Changed Part 12NC	Changed Part Number	Changed Part Description	Package Outline	Package Name	Status	Product Line
MC56F82743VLC	935311194557	MC56F82743VLC	32bit core,64kB Flash	SOT358-3	LQFP32	RFS	BL Microcontrollers
MC56F82723VFM	935311258557	MC56F82723VFM	32 bit core,32K Flash,6K	SOT617-17	HVQFN32	RFS	BL Microcontrollers
MC56F82748VLH	935318054557	MC56F82748VLH	32bit core, 256kB Flash	SOT1699-1	QFP64	RFS	BL Microcontrollers
MC56F82723VLC	935317935557	MC56F82723VLC	32bit core,32K Flash,6K	SOT358-3	LQFP32	RFS	BL Microcontrollers
MC56F82726VLF	935323408557	MC56F82726VLF	32bit core,32K Flash,6K	SOT313-3	LQFP48	RFS	BL Microcontrollers
MC56F82743VFM	935311326557	MC56F82743VFM	32bit core,64kB Flash	SOT617-17	HVQFN32	RFS	BL Microcontrollers
MC56F82746VLF	935311192557	MC56F82746VLF	32bit core,64kB Flash	SOT313-3	LQFP48	RFS	BL Microcontrollers