



Customer Information Notification **Update**

202008032IU02 : MC33771B Design Quality Robustness Improvement Update Notification

Note: This notice is NXP Company Proprietary.

Issue Date: Nov 24, 2021 **Effective date:** Nov 25, 2021

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Management summary

Update notification 202008032IU02 issued only to clarify that the Silicon Revision Register was updated from value 101010 to value 100100, in order to ease identification of updated silicon version on customer side for the enhanced quality version of MC33771B Battery Cell Controller IC previously announced.

Change Category

<input type="checkbox"/> Wafer Fab Process	<input type="checkbox"/> Assembly Process	<input type="checkbox"/> Product Marking	<input type="checkbox"/> Test Process	<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 Equipment	<input type="checkbox"/> Errata
<input type="checkbox"/> Wafer Fab Location	<input type="checkbox"/> Assembly Location	<input type="checkbox"/> Packing/Shipping/Labeling	<input type="checkbox"/> Test Location	<input type="checkbox"/> Electrical spec./Test coverage
<input type="checkbox"/> Firmware	<input type="checkbox"/> Other			

PCN Overview

Description

NXP Semiconductors announces the release of an enhanced version of MC33771B Battery Cell Controller IC. Purpose of the release is to provide customers with improved quality performance MC33771B (BCC14 RevB) devices.

The design change scope has been defined considering the field observations of the SMOS8MV portfolio, with the purpose of offering an upgraded version of the MC33771B device, together with no impact on application at customer level. As a result, NXP is able to propose this enhanced product version without any modification of the specification / data sheet, nor any change to form, fit, function or reliability.

Details of the design optimizations are listed below:

- Replacement of PMV5 capacitors to devices allowing further robustness improvement, keeping the same electrical performance.
- Improvement of charge pump defects screening.
- Implementation of the latest design rules checks from SMOS8MV technology.

The above changes have been validated well, as they were embedded at the earliest stage of MC33771C development, which successfully qualified and launched in production. MC33771C is comparable to MC33771B device in term of features and application requirements.

Corresponding ZVEI Delta Qualification Matrix ID: SEM-DE-01, SEM-DE-02

Reason

Utilizing zero-defect strategy, the enhanced design version of MC33771B Battery Cell Controller IC provides customers with improved, best in class quality devices.

Identification of Affected Products

Product identification does not change; identification can be tracked using product date code.

An Update to this Customer Information Notification will be relayed to make clear the product cut-over date code for new design implementation.

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

No impact on form, fit, function, reliability - only enhanced product quality.

Data Sheet Revision

No impact to existing datasheet

Disposition of Old Products

Existing inventory will be shipped until depleted

Update Information

Update notification 202008032IU02 issued only to clarify that the Silicon Revision Register was updated from value 101010 to value 100100, in order to ease identification of updated silicon version on customer side for the enhanced quality version of MC33771B Battery Cell Controller IC previously announced.

No other changes to previous notification.

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:

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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.

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Changed Orderable Part#	12NC	Product Type	Product Description	Package Outline	Package Description	Product Status	Customer Specific Indicator	Product Line
PC33771BSP1AER2	935339956697	PC33771BSP1AER2	BCC14	H(L)QFP64	SOT1510-2	ASM	No	BLC3
PC33771BSP1AE	935339956699	PC33771BSP1AE	BCC14	H(L)QFP64	SOT1510-2	ASM	No	BLC3
MC33771BTB2AER2	935349656528	MC33771BTB2AER2	BCC14	H(L)QFP64	SOT1510-2	RFS	No	BLC3
MC33771BTB2AE	935349656557	MC33771BTB2AE	BCC14	H(L)QFP64	SOT1510-2	RFS	No	BLC3
MC33771BSP2AER2	935349658528	MC33771BSP2AER2	BCC14	H(L)QFP64	SOT1510-2	RFS	No	BLC3
MC33771BSP2AE	935349658557	MC33771BSP2AE	BCC14	H(L)QFP64	SOT1510-2	RFS	No	BLC3
MC33771BSA1AER2	935349742528	MC33771BSA1AER2	BCC14	H(L)QFP64	SOT1510-2	RFS	No	BLC3
MC33771BSA1AE	935349742557	MC33771BSA1AE	BCC14	H(L)QFP64	SOT1510-2	RFS	No	BLC3
MC33771BTA2AER2	935350619528	MC33771BTA2AER2	BCC14	H(L)QFP64	SOT1510-2	RFS	No	BLC3
MC33771BTA2AE	935350619557	MC33771BTA2AE	BCC14	H(L)QFP64	SOT1510-2	RFS	No	BLC3
MC33771BTP2AER2	935350622528	MC33771BTP2AER2	BCC14	H(L)QFP64	SOT1510-2	RFS	No	BLC3
MC33771BTP2AE	935350622557	MC33771BTP2AE	BCC14	H(L)QFP64	SOT1510-2	RFS	No	BLC3
MC33771BSB2AER2	935350624528	MC33771BSB2AER2	BCC14	H(L)QFP64	SOT1510-2	RFS	No	BLC3
MC33771BSB2AE	935350624557	MC33771BSB2AE	BCC14	H(L)QFP64	SOT1510-2	RFS	No	BLC3
MC33771BSA2AER2	935350994528	MC33771BSA2AER2	BCC14	H(L)QFP64	SOT1510-2	RFS	No	BLC3
MC33771BSA2AE	935350994557	MC33771BSA2AE	BCC14	H(L)QFP64	SOT1510-2	RFS	No	BLC3
MC33771BSB1AER2	935350996528	MC33771BSB1AER2	BCC14	H(L)QFP64	SOT1510-2	RFS	No	BLC3
MC33771BSB1AE	935350996557	MC33771BSB1AE	BCC14	H(L)QFP64	SOT1510-2	RFS	No	BLC3
SC33771BTA1MAER2	935373626528	SC33771BTA1MAER2	BCC14 revB	H(L)QFP64	SOT1510-2	RFS	No	BLC3
SC33771BTA1MAE	935373626557	SC33771BTA1MAE	BCC14 revB	H(L)QFP64	SOT1510-2	RFS	No	BLC3
SC33771BTP1MAER2	935382539528	SC33771BTP1MAER2	BCC14 revB	H(L)QFP64	SOT1510-2	ASM	No	BLC3
SC33771BTP1MAE	935382539557	SC33771BTP1MAE	BCC14 revB	H(L)QFP64	SOT1510-2	ASM	No	BLC3
MC33771BSP1AE	935349661557	MC33771BSP1AE	BCC14	H(L)QFP64	SOT1510-2	RFS	No	BLC3
MC33771BSP1AER2	935349661528	MC33771BSP1AER2	BCC14	H(L)QFP64	SOT1510-2	RFS	No	BLC3