



Customer Information Notification Update

202008032IU03 : MC33771B Design Quality Robustness Improvement Update Notification

Note: This notice is NXP Company Proprietary.

Issue Date: Sep 30, 2022 **Effective date:** Oct 01, 2022

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Management summary

Update notification 202008032IU03 is issued only to expand the availability of enhanced quality versions of MC33771B Battery Cell Controller IC products to include parts MC33771BTA1AE/R2 and MC33771BTP1AE/R2 - no other changes.

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.

Previous update notification 202008032IU02 was issued 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. With Update notification 202008032IU03, NXP expands the portfolio of enhanced quality versions of MC33771B Battery Cell Controller IC products to include parts MC33771BTA1AE/R2 and MC33771BTP1AE/R2.

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.

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

Additional information

Additional documents: view online

Update Information

Update notification 202008032IU03 is issued only to expand the availability of enhanced quality versions of MC33771B Battery Cell Controller IC products to include parts MC33771BTA1AE/R2 and MC33771BTP1AE/R2.

No other changes to previous notifications.

Related Notification

Notification	Issue Date	Effective Date	Title
202008032I	Sep 03, 2020	Oct 03, 2020	MC33771B Design Quality Robustness Improvement
202008032IU02	Nov 24, 2021	Nov 25, 2021	MC33771B Design Quality Robustness Improvement Update 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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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
MC33771BTA1AE	935350632557	MC33771BTA1AE	BCC14	H(L)QFP64	SOT1510-2	RFS	No	BLC3
MC33771BTP1AER2	935350893528	MC33771BTP1AER2	BCC14	H(L)QFP64	SOT1510-2	RFS	No	BLC3
MC33771BTA1AER2	935350632528	MC33771BTA1AER2	BCC14	H(L)QFP64	SOT1510-2	RFS	No	BLC3
MC33771BTP1AE	935350893557	MC33771BTP1AE	BCC14	H(L)QFP64	SOT1510-2	RFS	No	BLC3