



## Customer Information Notification

2021030311 : MC33771B and MC33771C Data Sheet Updates (Normal Operating Range Maximum Voltage Extension, Cell Voltage Measurement Accuracy Extension and Clarifications/Corrections)

**Note:** This notice is NXP Company Proprietary.

**Issue Date:** Jun 09, 2021 **Effective date:** Jun 10, 2021

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### Change Category

- |  |   |  |   |   |
|--|---|--|---|---|
| <input type="checkbox"/> Wafer Fab Process   | <input type="checkbox"/> Assembly Process   | <input type="checkbox"/> Product Marking           | <input type="checkbox"/> Test Process   | <input 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 checked="" type="checkbox"/> Other: Data Sheet Updates (Specification Improvements and Clarifications/Corrections) |  |   |   |

## PCN Overview Description

NXP Semiconductors announces data sheet updates for the MC33771B and MC33771C Battery Cell Controller IC devices associated with this notification.

- MC33771B new revision 7.0
- MC33771C new revision 6.0

The revision history included in the updated documents provides a detailed description of the changes. Changes are summarized below.

1. Main changes, and common to both MC33771B and MC33771C data sheet updates:

- The extension of Normal Operating Range Maximum Voltage from 61.6V to 63V for covered applications. Frequent customer requests for extended maximum operating voltage for the BCC family devices leads NXP to offer this enhanced performance.
- The extension of Cell Voltage Measurement Accuracy after aging from 1000 hours to 3000 hours of HTOL. Delta qualification activities with extended HTOL stress conditions have been performed to guarantee product performance.

2. Data sheet updates also result from product specification alignment / harmonization of content as referenced in previously issued CIN 202007020I (Jul2020), together with alignments to Safety Manuals, and clarifications / corrections.

Full accounting of changes are available in the data sheet revision history sections.

\*\* Documentation changes only for extended parameter voltages as described, and technical clarifications, corrections - absolutely no changes to the device / product \*\*

New MC33771B rev 7.0 and MC33771C rev 6.0 data sheets may be obtained from the secure DocStore portal: <https://www.docstore.nxp.com/products?path=/content/docstore/product-hierarchy/Automotive-Battery-Management/MC33771--MC33772--MC33664/Datasheet&folderuid=10722735-c3a3-47dd-a794-8eec20db8c66>

Corresponding ZVEI Delta Qualification Matrix ID: SEM-DS-02, SEM-DS-03

**Reason**

MC33771B and MC33771C data sheets have been updated to support applications that require normal operating range maximum voltage of 63V, along with minor clarifications and corrections.

**Identification of Affected Products**

Product identification does not change

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

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No Impact on form, fit, function, reliability or quality

**Data Sheet Revision**

A new datasheet will be issued

**Related Notification**

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Notification	Issue Date	Effective Date	Title
202007020I	Jul 22, 2020	Jul 23, 2020	MC33771B Data Sheet Update to Rev 6.0 (Corrections and Technical Clarifications)

**Contact and Support**

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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.

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NXP Quality Management Team.

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<b>Affected OPN</b>	<b>12NC</b>
MC33771BTB2AER2	935349656528
MC33771BTB2AE	935349656557
MC33771BSP2AER2	935349658528
MC33771BSP2AE	935349658557
MC33771BSP1AER2	935349661528
MC33771BSP1AE	935349661557
MC33771BSA1AER2	935349742528
MC33771BSA1AE	935349742557
MC33771BTA2AER2	935350619528

MC33771BTA2AE	935350619557
MC33771BTP2AER2	935350622528
MC33771BTP2AE	935350622557
MC33771BSB2AER2	935350624528
MC33771BSB2AE	935350624557
MC33771BTB1AER2	935350626528
MC33771BTB1AE	935350626557
MC33771BTA1AER2	935350632528
MC33771BTA1AE	935350632557
MC33771BTP1AER2	935350893528
MC33771BTP1AE	935350893557
MC33771BSA2AER2	935350994528
MC33771BSA2AE	935350994557
MC33771BSB1AER2	935350996528
MC33771BSB1AE	935350996557
SC33771BTA1MAER2	935373626528
SC33771BTA1MAE	935373626557
SC33771BTP1MAER2	935382539528
SC33771BTP1MAE	935382539557
MC33771CTA1AER2	935390857528
MC33771CTP1AER2	935395161528
MC33771CTP2AE	935395167557
MC33771CTA2AER2	935391008528
MC33771CTP1AE	935395161557
MC33771CTP2AER2	935395167528
MC33771CTA2AE	935391008551
MC33771CTA1AE	935390857557
SC33771CTA1MAE	935390544557
SC33771CTA1MAER2	935390544528
SC33771CTP1MAE	935402529557
SC33771CTP1MAER2	935402529528