



Customer Information Notification

2014010111

Issue Date: 09-Mar-2014
Effective Date: 07-Jun-2014

Here's your personalized quality information concerning products Digi-Key purchased from NXP.
For detailed information we invite you to [view this notification online](#)



Management Summary

There is a potentially missing undervoltage response of the TJA1043 High Speed CAN transceiver in a non-standard application under very specific conditions.

Change Category

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

TJA1043 missing Vcc/Vio undervoltage detection

Information Notification

It has come to NXP's attention that the TJA1043 High Speed CAN transceiver in a non-standard application under very specific conditions might not respond correctly to a Vcc/Vio undervoltage after a short LOW pulse on the NSTB pin.

In the attachment to this CIN a clear description of the standard and non-standard application impact is given, allowing customers to make a quick assessment on whether their module(s) could potentially be affected, and to consider preventive actions.

If you have not observed any functional issue, your application is not affected.

To make the product robust against the trigger for this potential non-detection, a small metal design improvement that does not alter in any way the product's functionality will be released. There will be no change to the product's

datasheet or application note. NXP wants to release this improvement as soon as possible, without further increasing the number of change notifications to customer. Therefore the qualification of this improvement will be combined with the change notification already scheduled for the release of the Dual Source TJA1043, which was announced in the NXP Advanced PCN 201301011A from September 7th 2013. The final PCN 201301011F05 with qualification results will be provided in October 2014.

Why do we issue this Information Notification

NXP is committed to inform customers on potential impact to their modules.

Identification of Affected Products

The potential incorrect response of TJA1043 in a non-standard application under very specific conditions is not specific to a certain datecode or (package) version of the TJA1043 product.

Impact

The small design change will make the product more robust, but does not change anything in the product's functionality.

Disposition of Old Products

NXP wants to prevent further proliferation of change announcements to customer, and make the design improvement available to customers on shortest possible notice. Therefore the design improvement will be made available via the already scheduled dual source qualification of the TJA1043 (A-PCN 201301011A from September 7 2013, and the final PCN 201301011F05 in October 2014).

All further information on ordering and disposition of old products will be disclosed in this TJA1043 Dual Source final PCN 201301011F05.

Related Notifications

Notification	Issue Date	Effective Date	Title
201301011A	14-Sep-2013		Dual sourcing from SSMC
201301011F05	30-Oct-2014	28-Jan-2015	Introduction of Dual Source for product TJA1043

Remarks

Please use the link 'view online' above under the heading 'Additional information' to log in to the NXP e-PCN system you're subscribed to, in order to obtain the attached document from the tab 'Files'.

Should you not be able to obtain this document, please contact your NXP sales representative or the e-mail address mentioned below under 'Contact and Support'.

In the NXP e-PCN system on the tab 'Products' you can see a list of your affected part numbers. Note that at this point in time you cannot order yet the new NXP parts. Once the final PCN with qualification results are submitted to customer the new orderable NXP 12NC part numbers will be provided.

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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Position Quality Account Manager
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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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A global semiconductor company with operations in more than 25 countries, NXP posted unaudited revenue of \$4.36 billion in 2012.

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