



Final Product Change Notification

202309003F03 : Introduction of Multi-Source Optical Shrink Versions of SO-Package Product TJA1042

Note: This notice is NXP Company Proprietary.

Issue Date: Feb 21, 2024 **Effective date:** May 21, 2024

Here is your personalized notification about a NXP general announcement.
For detailed information we invite you to view this notification online

Management summary

NXP Product Line In-Vehicle Networking (PL IVN) will be introducing multi-source optical shrink versions of SO-package product TJA1042

Change Category

☐ Wafer Fab Process	☐ Assembly Process	☐ Product Marking	☐ Test Process	☐ Design
☐ Wafer Fab Materials	☒ Assembly Materials	☐ Mechanical Specification	☐ Test Equipment	☐ Errata
☒ Wafer Fab Location	☒ Assembly Location	☐ Packing/Shipping/Labeling	☒ Test Location	☐ Electrical spec./Test coverage
☐ Firmware ☒ Other: Optical shrink				

PCN Overview

Description

For the PL IVN SO-package CAN product TJA1042, optical shrink Quad Source product versions will be introduced. The Bill-of-Material (BoM) of those new shrink product versions will be using copper (Cu) bondwire, with the associated mold compound and die attach. The new product versions are introduced as Quad Source, i.e. using two front-end diffusion waferfabs and two back-end assembly and final test sites.

This change does not affect the currently released NXP 12NC product part numbers for TJA1042. New 12NCs have been created to make use of the optical shrink Quad Source.

In the attachment to this Product Change Notification (PCN) details of the changes involved are given, as well as three additional documents:

- The AEC-Q100 qualification results for the release
- The applicable ZVEI Delta Qualification Matrix (DeQuMa), both in zipped excel and pdf format

See the paragraphs 'Additional information' and 'Remarks' below for instructions on how to obtain these documents. Attached to this e-mail is an excel file with two sheets. One contains the sale history for your affected part numbers, the other the product change list. In both sheets reference is

made to new part number, orderable part number and NXP 12NC code. In case you want to make use of the optical shrink Quad Source you need to order this new part number.

Reason

These changes will help to continue NXP's Global Business Continuity Management process to establish an industrial base that is agile, robust and can reliably service the long term forecasted market growth of IVN products.

Identification of Affected Products

Top Side Marking

In the attachment to this PCN it is shown how the product name and the marking changes.

Product Availability

Sample Information

Sample Planning follows with the final PCN

Production

Planned first shipment May 21, 2024

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

No impact on specification, form, fit, function(ality), performance, reliability or quality

Data Sheet Revision

No impact to existing datasheet

Disposition of Old Products

Existing inventory will be shipped until depleted

Additional information

Self qualification: view online

Additional documents: view online

Timing and Logistics

In compliance with JEDEC J-STD-046, your acknowledgement of this change is expected by Mar 22, 2024.

Remarks

Please use the link 'view online' under the heading 'Additional information' above, to log in to the NXP e-PCN system you're subscribed to, in order to obtain the attached document with relevant detailed information 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. There is no need or use to respond to this Advanced PCN (A-PCN), which is only meant to pre-inform you of upcoming changes. Upon NXP release of an optical shrink product version, a final PCN will be provided with all the detail change information and release reports. At such time the new orderable NXP 12NC part numbers will be provided, and samples can be ordered or production orders placed.

Related Notification

Notification	Issue Date	Effective Date	Title
202302007I	Feb 17, 2023	Mar 17, 2023	TJA1042 Datasheet Update

202309003A Nov 02,
2023

Introduction of Multi-Source Optical Shrink Versions of Various
CAN/LIN Products

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	Kees van Hasselt
Position	Quality Account Manager
e-mail address	ivn.customer.service@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.

You have received this email because you are a designated contact or subscribed to NXP Quality Notifications. NXP shall not be held liable if this Notification is not correctly distributed within your organization.

This message has been automatically distributed. Please do not reply.

NXP Semiconductors
High Tech Campus, 5656 AG Eindhoven, The Netherlands

© 2006-2024 NXP Semiconductors. All rights reserved.

Orderable Part Number#	12NC	Product Type	Product Description	Package Outline	Package Description	Product Status	Customer Specific Indicator	New Orderable Part#	12NC New	Product Type New	Product Description New	Product Line
TJA1042AT/0Z	935361939431	TJA1042AT/0	HS-CAN TRANSCEIVER	S08	SOT96-1	RFS	No	TJA1042CT/0Z	935424034431	TJA1042CT/0	HS-CAN TRANSCEIVER	BLC1
TJA1042AT/3/0Z	935361941431	TJA1042AT/3/0	HS-CAN TRANSCEIVER	S08	SOT96-1	RFS	No	TJA1042BT/0Z	935424026431	TJA1042BT/0	HS-CAN TRANSCEIVER	BLC1
TJA1042T,118	935285277118	TJA1042T	HS-CAN TRANSCEIVER	S08	SOT96-1	RFS	No	TJA1042CT/0Z	935424034431	TJA1042CT/0	HS-CAN TRANSCEIVER	BLC1
TJA1042T/1J	935302719118	TJA1042T/1	HS-CAN TRANSCEIVER	S08	SOT96-1	RFS	No	TJA1042CT/0Z	935424034431	TJA1042CT/0	HS-CAN TRANSCEIVER	BLC1
TJA1042T/3,118	935285279118	TJA1042T/3	HS-CAN TRANSCEIVER	S08	SOT96-1	RFS	No	TJA1042BT/0Z	935424026431	TJA1042BT/0	HS-CAN TRANSCEIVER	BLC1
TJA1042T/3/1J	935302721118	TJA1042T/3/1	HS-CAN TRANSCEIVER	S08	SOT96-1	RFS	No	TJA1042BT/0Z	935424026431	TJA1042BT/0	HS-CAN TRANSCEIVER	BLC1
TJA1042T/3/CM,118	935295727118	TJA1042T/3/CM	HS-CAN TRANSCEIVER	S08	SOT96-1	RFS	No	TJA1042BT/0Z	935424026431	TJA1042BT/0	HS-CAN TRANSCEIVER	BLC1
TJA1042T/CM,118	935295726118	TJA1042T/CM	HS-CAN TRANSCEIVER	S08	SOT96-1	RFS	No	TJA1042CT/0Z	935424034431	TJA1042CT/0	HS-CAN TRANSCEIVER	BLC1