Customer Information Notification

202301013I : PCA9574 and PCA9575 Data Sheet Update

Issue Date: Jun 16, 2023 **Effective date:** Jun 17, 2023

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

Management summary

CIN to update limit value of VDD(IO) range and static characteristics value of VIH & VOH and typical application diagram for PCA9574 and PCA9575

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	[X]Electrical spec./Test coverage
[ ]Firmware	[ ]Other			

PCN Overview
Description

• PCA9574 V6.0 (change fromV5.0):
1) Change VDD(IO) max value from VDD+0.5V to +4.0V in Table 13 Limiting values.
2) Change VDDIO max value from VDD+0.5V to 3.6V in Table 14 Static characteristics.
3) Change VIH max value (I/Os) from 3.6V to VDD(IO)+0.3 V in Table 14 Static characteristics.
4) Change VOH max value (I/Os) from – to VDD(IO) in Table 14 Static characteristics.
5) Change VDD(IO) from 3.6V to 1.1V-3.6V in Fig 15 Typical application.
6) Change RESET pin 2Kohm pull-up resistor from VDD(IO) to VDD in Fig 15 Typical application.

• PCA9575 V5.0 (change from V4.4):
1) Change VDD(IO)0 and VDD(IO)1 max value from 4.0+0.5V to +4.0V in Table 21 Limiting values.
2) Change VDD(IO)0 and VDD(IO)1 max value from 3.6+0.5 V to 3.6V in Table 22 Static characteristics.
3) Change VIH max value (I/Os) from 3.6V to VDD(IO)+0.3 V in Table 22 Static characteristics.
4) Change VOH max value (I/Os) from – to VDD(IO) in Table 22 Static characteristics.

5) Change VDD(IO)0 and VDD(IO)1 from 3.6V to 1.1V-3.6V in Fig 17 Typical application.
6) Change RESET pin 2Kohm pull-up resistor from VDD(IO)0 to VDD in Fig 17 Typical application.
Reason
PCA9574 V6.0 (change fromV5.0):
1. to correct the limiting value of VDD(IO) range.
2. to correct the static characteristics value of VIH & VOH.
3. to correct typical application diagram

PCA9575 V5.0 (change from V4.4):
1. to correct the limiting value of VDD(IO) range.
2. to correct the static characteristics value of VIH & VOH.
3. to correct typical application diagram

Identification of Affected Products
Product identification does not change
Anticipated Impact on Form, Fit, Function, Reliability or Quality

No Impact on form, fit, function, reliability or quality
Data Sheet Revision
A new datasheet will be issued
Disposition of Old Products
Existing inventory will be shipped until depleted
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	Mike Wunderlich
Position	Tactical Marketing Manager
e-mail address	mike.wunderlich@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