



Customer Information Notification

2023010131 : PCA9574 and PCA9575 Data Sheet Update

Note: This notice is NXP Company Proprietary.

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

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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

<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 checked="" type="checkbox"/> Electrical spec./Test coverage
<input type="checkbox"/> Firmware <input type="checkbox"/> Other				

PCN Overview

Description

- PCA9574 V6.0 (change from V5.0):
 - 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 from V5.0):

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:

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NXP Quality Management Team.

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Orderable Part Number#	12NC	Product Type	Product Description	Package Outline	Package Description	Product Status	Customer Specific Indicator	Product Line
PCA9574PW,118	935285149118	PCA9574PW	PCA9574	(T)SSOP16	SOT403-1	RFS	No	BLC6
PCA9574BS,118	935285148118	PCA9574BS	PCA9574	H(V)QFN16	SOT758-1	RFS	No	BLC6
PCA9575PW2,118	935286414118	PCA9575PW2	PCA9575	(T)SSOP28	SOT361-1	RFS	No	BLC6
PCA9575PW1,118	935286413118	PCA9575PW1	PCA9575	(T)SSOP24	SOT355-1	RFS	No	BLC6
PCA9575HF,118	935286416118	PCA9575HF	PCA9575	H(W)QFN24	SOT994-1	RFS	No	BLC6