



## Customer Information Notification

201805020I

**Issue Date:** 20-Aug-2018  
**Effective Date:** 21-Aug-2018

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# QUALITY

### Change Category

- |  |   |  |   |  |
|--|---|--|---|--|
| <input type="checkbox"/> Wafer Fab Process   | <input type="checkbox"/> Assembly Process   | <input type="checkbox"/> Product Marking           | <input type="checkbox"/> Test Location  | <input type="checkbox"/> Design                                    |
| <input type="checkbox"/> Wafer Fab Materials | <input type="checkbox"/> Assembly Materials | <input type="checkbox"/> Mechanical Specification  | <input type="checkbox"/> Test Process   | <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 Equipment | <input checked="" type="checkbox"/> Electrical spec./Test coverage |
| <input type="checkbox"/> Firmware            | <input type="checkbox"/> Other              |  |   |  |

MC22XS4200 /  
MC50XS4200 Data  
Sheet Updates

### Description

NXP Semiconductors announces data sheet updates for the Dual 24V High-Side Switch family, including the MC22XS4200 and MC50XS4200 devices associated with this notification. The revision history included in the updated documents provides a detailed description of the changes. Changes are summarized below.

#### MC22XS4200 Data Sheet Changes:

1. Changed steady-state current per channel from 3.0 A to 4.2 A on Page 1.
2. Updated IHS[0:1] value from 3.0 to 4.2 A in Table 3.
3. Added clarification for diagnostic range to Table 5.
4. Corrected typo in reverse voltage protection on VPWR (changed -28 V to -32 V).
5. Updated load dump duration (changed 500 ms to 350 ms) and changed VPWR from 14 V to 28 V in Table 3.
6. Updated Track & Hold current sensing mode.
7. Changed "Bits OD6:OD5 contain the product identification (ID) number, equal to 01 for the present dual 22 milliohm product", to "Bits OD6:OD5 contain the product identification (ID) number, equal to 00 for the present dual 22 milliohm product", in previous address SOA3 : SOA0 = 0111 (DIAGR\_s).

8. Added MC22XS4200CEK part to Table 1, and associated 98ASA00894D package information.

**MC50XS4200 Data Sheet Changes:**

1. Changed steady state current value from 1.2 to 1.65 A listed under features on page 1.
2. Updated IHS[0:1] value from 1.2 to 1.65 A in Table 3.
3. Added clarification for diagnostic range to Table 5.
4. Corrected typo in Reverse voltage protection on VPWR (changed -28 V to -32 V).
5. Corrected typo in Open load detection in ON state (OL\_ON) (changed 150 mA to 60 mA).
6. Corrected typo in previous address SOA3 : SOA0 = 0111 (DIAGR\_s), changed 22 milliohm to 50 milliohm.
7. Updated Track & Hold current sensing mode.
8. Added MC50XS4200CEK part to Table 1 and associated 98ASA00894D package information

The MC22XS4200 data sheet revision 5.0 is attached to this notice, and can be found at:  
<https://www.nxp.com/docs/en/data-sheet/MC22XS4200.pdf>

The MC50XS4200 data sheet revision 5.0 is attached to this notice, and can be found at:  
<https://www.nxp.com/docs/en/data-sheet/MC50XS4200.pdf>

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

**Reason**

The data sheets have been updated to correct errors and / or provide additional technical clarification on some device features.

**Identification of Affected Products**

Product identification does not change

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

Customer application should take into account the identified data sheet changes.  
No impact on form, fit, function, reliability or quality.

**Data Sheet Revision**

A new datasheet will be issued

**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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Changed Orderable Part#	Changed Part 12NC	Changed Part Number	Changed Part Description	Package Outline	Package Name	Status	Product Line
MC50XS4200BEK	934070502574	MC50XS4200BEK	24V 50MOHM DUAL HI SIDE	SOT1746-2	HSOP32	RFS	BL Power MOS FSL
MC22XS4200BEK	934070635574	MC22XS4200BEK	24V 22MOHM DUAL HI SIDE	SOT1746-2	HSOP32	RFS	BL Power MOS FSL