



## Customer Information Notification

201805019I

**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              |  |   |  |

MC06XS4200 /  
MC10XS4200 /  
MC20XS4200 /  
MC16XSD200 Data Sheet  
Updates

### Description

NXP Semiconductors announces data sheet updates for the Dual 24V High-Side Switch family, including the MC06XS4200, MC10XS4200, MC20XS4200, and MC16XSD200 devices associated with this notification. The revision history included in the updated documents provides a detailed description of the changes. Changes are summarized below.

#### Data Sheet Changes:

1. MC06XS4200 changed steady-state current per channel from 9.0 A to 12 A on Page1, and updated IHS[0:1] value from 9.0 to 12 A in Table 3.
2. MC10XS4200 changed steady-state current per channel from 6.0 A to 8.5 A on Page1, and updated IHS[0:1] value from 6 to 8.5 A for BFK and BAFK versions, and from 6.0 to 7.5 A for FK version in Table 3.
3. MC20XS4200 / MC16XSD200 changed steady-state current per channel from 3.0 A to 4.4 A on Page1, and updated IHS[0:1] value from 3.0 to 4.4 A in Table 3.

4. Added clarification for diagnostic range to Table 5.
5. Updated Track & Hold current sensing mode.
6. Updated load dump duration (changed typo 500 ms to 350 ms), and changed VPWR from 14 V to 28 V in Table 3.
7. MC06XS4200 corrected typo on Minimum load current with compensated error in Table 4.
8. MC20XS4200 corrected typo on Esr0\_err uncompensated Tj=25°C to 125°C in Table 4.

The MC06XS4200 data sheet revision 5.0 is attached to this notice, and can be found at:  
<https://www.nxp.com/docs/en/data-sheet/MC06XS4200.pdf>

The MC10XS4200 data sheet revision 7.0 is attached to this notice, and can be found at:  
<https://www.nxp.com/docs/en/data-sheet/MC10XS4200.pdf>

The MC20XS4200 data sheet revision 6.0 is attached to this notice, and can be found at:  
<https://www.nxp.com/docs/en/data-sheet/MC20XS4200.pdf>

The MC16XSD200 data sheet revision 4.0 is attached to this notice, and can be found at:  
<https://www.nxp.com/docs/en/data-sheet/MC16XSD200.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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Customer Focus, Passion to Win.

NXP Quality Management Team.

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Changed Orderable Part#	Changed Part 12NC	Changed Part Number	Changed Part Description	Package Outline	Package Name	Status	Product Line
MC10XS4200BAFK	934070607557	MC10XS4200BAFK	SPD10 phasell	SOT1938-1	HQFN24	RFS	BL Power MOS FSL
MC10XS4200BFK	934070604557	MC10XS4200BFK	SPD10 phasell	SOT1938-1	HQFN24	RFS	BL Power MOS FSL