

Microsemi Corporation

March 16, 2017

Product/Process Change Notification No: 17007A

Change Classification: Minor

Subject

Microsemi A42MX36 Device V_H (min) Value Change and SMD 5962-99585 Updates of Table I Electrical Performance Characteristics (Addendum A)

Description of Change

The V_{H} (min) value for the A42MX36 device family is changed from 2.0 V to 2.4 V for commercial, industrial, and military temperatures, where VCCI=5.0 V. The value is updated in the 42MX datasheet and 42MX automotive datasheet for the A42MX36 device family.

An update to the SMD 5962-99585 is in progress which will include extending Table I Electrical Performance Characteristics to include VCCI=5.0 V and VCCI=3.3 V operations. The V_{IH} (min) value of 2.4 V will be included in the electrical performance characteristics sections, where VCCI=5.0 V. This will match the datasheets mentioned above.

Reason for Change

The V_{IH} (min) value is incorrect in the datasheets for A42MX36 devices when VCCI is >= 5.0 V. Also, Table I in SMD 5962-99585 specifies only the 5.0 V/3.3 V mixed mode electrical performance characteristics.

Application Impact

Customers should check their V_{H} (min) level when VCCI is >= 5.0 V. If the V_{H} (min) value is greater than or equal to 2.4 V, then it does not impact the functionality of the device.

Customers may see a functional failure at time zero, if the V_H (min) value is less than 2.4 V.

Products Affected by this Change

The A42MX36 device family is affected by this change. See Appendix A: The Affected A42MX36 Devices List (see page 2) for more information.

Contact Information

If you have any questions, please contact Microsemi's Technical Support at soc_tech@microsemi.com. (mailto: soc_tech@microsemi.com)

Regards,

Microsemi Corporation

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Appendix A: The Affected A42MX36 Devices List

A42MX36 Devices List			
5962-9958501QXC	A42MX36-1PQ240M	A42MX36-3BGG272	A42MX36-CQ256M
5962-9958501QYC	A42MX36-1PQG208	A42MX36-3BGG272I	A42MX36-FBG272
5962-9958502QXC	A42MX36-1PQG208I	A42MX36-3PQ208	A42MX36-FBGG272
5962-9958502QYC	A42MX36-1PQG208M	A42MX36-3PQ208I	A42MX36-FPQ208
A42MX36-1BG272	A42MX36-1PQG240	A42MX36-3PQ240	A42MX36-FPQ240
A42MX36-1BG272I	A42MX36-1PQG240I	A42MX36-3PQ240I	A42MX36-FPQG208
A42MX36-1BG272M	A42MX36-1PQG240M	A42MX36-3PQG208	A42MX36-FPQG240
A42MX36-1BGG272	A42MX36-2BG272	A42MX36-3PQG208I	A42MX36-PQ208
A42MX36-1BGG272I	A42MX36-2BG272I	A42MX36-3PQG240	A42MX36-PQ208A
A42MX36-1BGG272M	A42MX36-2BGG272	A42MX36-3PQG240I	A42MX36-PQ208I
A42MX36-1CQ208	A42MX36-2BGG272I	A42MX36-BG272	A42MX36-PQ208M
A42MX36-1CQ208B	A42MX36-2PQ208	A42MX36-BG272I	A42MX36-PQ240
A42MX36-1CQ208M	A42MX36-2PQ208I	A42MX36-BG272M	A42MX36-PQ240I
A42MX36-1CQ256	A42MX36-2PQ240	A42MX36-BGG272	A42MX36-PQ240M
A42MX36-1CQ256B	A42MX36-2PQ240I	A42MX36-BGG272I	A42MX36-PQG208
A42MX36-1CQ256M	A42MX36-2PQG208	A42MX36-BGG272M	A42MX36-PQG208A
A42MX36-1PQ208	A42MX36-2PQG208I	A42MX36-CQ208	A42MX36-PQG208I
A42MX36-1PQ208I	A42MX36-2PQG240	A42MX36-CQ208B	A42MX36-PQG208N
A42MX36-1PQ208M	A42MX36-2PQG240I	A42MX36-CQ208M	A42MX36-PQG240
A42MX36-1PQ240	A42MX36-3BG272	A42MX36-CQ256	A42MX36-PQG240I
A42MX36-1PQ240I	A42MX36-3BG272I	A42MX36-CQ256B	A42MX36-PQG240M





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