Microsemi Corporation

March 16, 2017

Product/Process Change Notification No: 17007A

Change Classification: Minor

Subject

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

Description of Change

The V_{IH} (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_{IH} (min) level when VCCI is >= 5.0 V. If the V_{IH} (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_{IH} (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

Any projected dates in this PCN are based on the most current product information at the time this PCN is being issued, but they may change due to unforeseen circumstances. For the latest schedule and any other information, please contact your local Microsemi Sales Office, the factory contact shown above, or your local distributor.

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-PQG208M
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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