



190502535 Si838x Data Sheet Revision 1.0 Released

PCN Issue Date: 5/2/2019

Effective Date: 8/8/2019

PCN Type: Datasheet

Description of Change

Silicon Labs is pleased to announce the 1.0 revision of the Si838x data sheet. The updated data sheet has improved readability, expanded feature descriptions, included additional design documentation, and is updated with the latest test data and certifications. Specifications are added, and specific corrections are made to the truth table, thermal derating curve, and isolation working voltages.

Reason for Change

Various improvements to readability, grammar, and formatting have been collected since the last revision. Additional test data has been gathered to improve electrical specifications. An error was found in the description of the output state when the device is unpowered, and an error was discovered in the calculation used for the thermal derating curve.

Impact on Form, Fit, Function, Quality, Reliability

There is no impact on form, fit, quality, or reliability.

The following updates are made which impact function:

- 1) Changed the truth table to show the output as "undetermined" when VDD is in UVLO
- 2) Updated the thermal derating curves and reduced safety current specification accordingly
- 3) Updated the isolation working voltage for multiple safety certifications
- 4) Added an electrical specification for input voltage logic levels

Product Identification

Si8380P-IU
Si8380P-IUR
Si8382P-IU
Si8382P-IUR
Si8384P-IU
Si8384P-IUR
Si8388P-IU
Si8388P-IUR
Si8380S-IU
Si8380S-IUR
Si8380PS-IU
Si8380PS-IUR
Si8380PM-IU
Si8380PM-IUR
Si8380PF-IU
Si8380PF-IUR
Si8382PS-IU
Si8382PS-IUR
Si8382PM-IU
Si8382PM-IUR
Si8382PF-IU
Si8382PF-IUR
Si8384PS-IU
Si8384PS-IUR
Si8384PM-IU
Si8384PM-IUR

SI8384PF-IU
Si8384PF-IUR

Last Date of Unchanged Product: 8/8/2019

Qualification Samples

Samples available upon request.

Customer Response

Lack of acknowledgment of the PCN within 30 days constitutes acceptance of the change, Ref. JEDEC-J-STD-046.

To request further data or inquire about this notification, please contact your Silicon Labs sales representative. A list of Silicon Labs sales representatives is available at <http://www.silabs.com>.

Customers may approve early PCN acceptance by emailing approval, along with PCN # to PCNEarlyAcceptance@silabs.com

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Qualification Data

Not applicable.



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