181015389 Si1153 Revision B

PRCN Issue Date: 10/15/2018   **Effective Date:** 1/21/2019

PCN Type: Product Revision

Description of Change

Silicon Labs is pleased to announce the release of revision B of the Si1153 devices.
Revision B is backwards compatible with revision A parts.
The changes to the device are as follows:

-Added window threshold mode where an interrupt will be generated if ADC codes leave or enter the window threshold area. This aids in the detection of when an object leaves or enters the proximity space.
-Reconfigured parameter register THRESHOLD2_H address 0x29 to be UPPER_THRESHOLD_H representing the upper value of the higher window range used to generate an interrupt.
-Reconfigured parameter register THRESHOLD2_L address 0x2A to be UPPER_THRESHOLD_L representing the lower value of the higher window range used to generate an interrupt.
-Added parameter register LOWER_THRESHOLD_H address 0x2C representing the upper value of the lower window range used to generate an interrupt.
-Added parameter register LOWER_THRESHOLD_L address 0x2D representing the lower value of the lower window range used to generate an interrupt.

Reason for Change

Feature addition

Impact on Form, Fit, Function, Quality, Reliability

The function of the device has been enhanced with the new features described in the change description. Revision B is compatible in systems that were previously using Revision A devices. There is no impact on form, fit, quality or reliability.

Product Identification

Existing Part #	Replacement Part #	DropInCompInd.
SI1153-AA00-GM	SI1153-AB00-GM	Yes
SI1153-AA00-GMR	SI1153-AB00-GMR	Yes
SI1153-AA09-GM	SI1153-AB09-GM	Yes
SI1153-AA09-GMR	SI1153-AB09-GMR	Yes
SI1153-AA9X-GM	SI1153-AB9X-GM	Yes
SI1153-AA9X-GMR	SI1153-AB9X-GMR	Yes

Last Date of Unchanged Product: 1/21/2019

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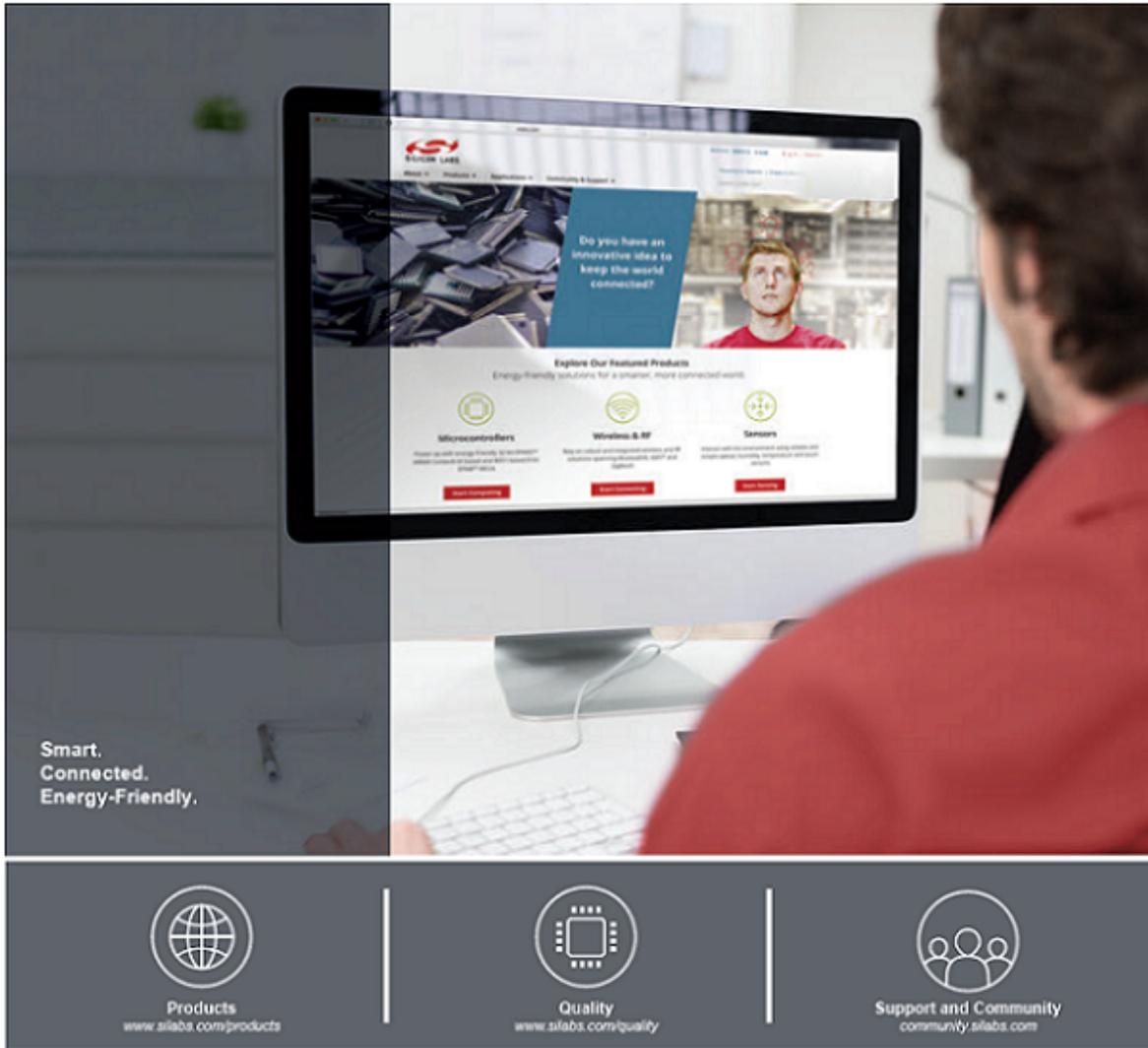
Customers may approve early PCN acceptance by emailing approval, along with PCN # to PCNEarlyAcceptance@silabs.com

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