



200204714 Addendum 191209647 Si82xx/Si84xx/Si86xx 8/16SOIC150milsAssmbyTestShip Site

PCN Issue Date: 2/4/2020

Effective Date: 3/13/2020

PCN Type: Assembly

Description of Change

Silicon Labs is issuing an addendum to 191209647 which listed the incorrect date for last date of unchanged product. The last date of unchanged product has been changed from 12/27/19 to 3/13/20.

Silicon Labs is pleased to announce the successful qualification of UTAC Thailand (UTL) as an additional assembly, test and shipping site for Si82xx/Si84xx/Si86xx, 8/16L-SOIC-150mils. UTL is an existing assembly, test and shipping site for Silicon Labs, and is certified to ISO9001, ISO14001 and IATF16949.

UTL Ship Address:
UTAC Thai Limited
Wellgrow Industrial Estate, 73 Moo 5, Bangna-Trad (KM.36)
T.Bangsamak, Bangpakong Chachoengsao 24180 Thailand
Bangkok
Zip code: 24180

As of the effective date of the PCN, Silicon Labs may assemble, test and ship from either of the qualified assembly, test and shipping sites.

Reason for Change

The additional assembly and test locations will provide additional capacity for supply assurance.

Impact on Form, Fit, Function, Quality, Reliability

There is no impact on form, fit, function, quality, or reliability. The devices assembled and tested at UTL will comply with Silicon Labs' relevant datasheets and quality levels.

The same test equipment including ATE, test load board hardware, and test application software will be used at both locations.

Product Identification

Existing Part #
SI8230AB-D-IS1
SI8230AB-D-IS1R
SI8230BB-D-IS1
SI8230BB-D-IS1R
SI8231AB-D-IS1
SI8231AB-D-IS1R
SI8231BB-D-IS1
SI8231BB-D-IS1R
SI8232AB-D-IS1
SI8232AB-D-IS1R
SI8232BB-D-IS1
SI8232BB-D-IS1R
SI8233BB-D-IS1
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SI8234AB-D-IS1

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SI8238AB-D-IS1
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SI8238BB-D-IS1
SI8238BB-D-IS1R
SI8241BB-D-IS1
SI8241BB-D-IS1R
SI8241CB-D-IS1
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SI8244BB-D-IS1
SI8244BB-D-IS1R
SI8244CB-D-IS1
SI8244CB-D-IS1R
SI8400AA-A-IS
SI8400AA-A-ISR
SI8400AA-B-IS
SI8400AA-B-ISR
SI8401AA-B-IS
SI8401AA-B-ISR
SI8402AB-B-IS
SI8402AB-B-ISR
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SI8405AB-A-IS1
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SI8410AB-C-IS
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SI8431AB-D-ZS1
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SI8620EB-B-ISR
SI8620EC-B-IS
SI8620EC-B-ISR
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SI8621AB-B-ISR
SI8621BB-B-IS
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SI8622BB-B-IS
SI8622BB-B-ISR
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SI8631BB-B-IS1R
SI8631BC-B-IS1
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SI8655BB-B-IS1R
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SI8662BB-B-IS1R
SI8662BC-B-IS1
SI8662BC-B-IS1R
SI8662EC-B-IS1
SI8662EC-B-IS1R
SI8663AB-B-IS1
SI8663AB-B-IS1R
SI8663BB-B-IS1
SI8663BB-B-IS1R
SI8663BC-B-IS1
SI8663BC-B-IS1R
SI8663EC-B-IS1
SI8663EC-B-IS1R
SI8SL8AB-D-IS1
SI8SL8AB-D-IS1R

Last Date of Unchanged Product: 3/13/2020

Qualification Samples

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

User Registration

Register today to create your account on Silabs.com. Your personalized profile allows you to receive technical document updates, new product announcements, "how-to" and design documents, product change notices (PCN) and other valuable content available only to registered users. <http://www.silabs.com/profile>

Qualification Data

Qualification Report is attached.



UTAC 08/16-SOIC-150mil Qualification Report

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| Test Name | Test Condition | Qualification | Lot ID of Start | Fail/Pass or End | Notes | Summary | Status |
|---|---|---------------|-----------------|------------------|-------|---------------|--------|
| 16-SOIC-150mil Si823x Products - Test Group A | | | | | | | |
| HAST | JA110 130°C, 85%RH Vcc=5V, 96 hours | 3 lots, N=>77 | Q044753 | 0/80 | 1 | 3 lots 0/0 | Pass |
| | | | Q044794 | 0/80 | 1 | | |
| | | | Q044795 | 0/80 | 1 | | |
| UHAST | JA110 130°C, 85%RH 96 hours | 3 lots, N=>77 | Q045164 | 0/82 | 1 | 3 lots 0/0 | Pass |
| | | | Q045165 | 0/82 | 1 | | |
| | | | Q045166 | 0/82 | 1 | | |
| Temp Cycle | JA104 Cond C: -65°C to 150°C 500 cycles | 3 lots, N=>77 | Q044451 | 0/82 | 1 | 3 lots 0/0 | Pass |
| | | | Q044452 | 0/78 | 1 | | |
| | | | Q044453 | 0/82 | 1 | | |
| HTSL | JA103 150°C, 1000hr | 1 lot, N=>45 | Q044466 | 0/28 | 1 | 3 lots 0/0 | Pass |
| | | | Q044467 | 0/30 | 1 | | |
| | | | Q044468 | 0/28 | 1 | | |
| 16-SOIC-150mil Si84xx / Si86xx Products - Test Group A | | | | | | | |
| HAST | JA110 130°C, 85%RH Vcc=5V, 96 hours | 3 lots, N=>77 | Q044522 | 0/80 | 1 | 3 lots 0/0 | Pass |
| | | | Q044791 | 0/80 | 1 | | |
| | | | Q044792 | 0/80 | 1 | | |
| UHAST | JA110 130°C, 85%RH 96 hours | 3 lots, N=>77 | Q045152 | 0/79 | 1 | 3 lots 0/0 | Pass |
| | | | Q045153 | 0/80 | 1 | | |
| | | | Q045154 | 0/82 | 1 | | |
| Temp Cycle | JA104 Cond C: -65°C to 150°C 500 cycles | 3 lots, N=>77 | Q044445 | 0/82 | 1 | 3 lots 0/0 | Pass |
| | | | Q044446 | 0/82 | 1 | | |
| | | | Q044450 | 0/82 | 1 | | |
| HTSL | JA103 150°C, 1000hr | 1 lot, N=>45 | Q044460 | 0/30 | 1 | 3 lots 0/0 | Pass |
| | | | Q044461 | 0/26 | 1 | | |
| | | | Q044462 | 0/25 | 1 | | |
| 08-SOIC-150mil Si84xx / Si86xx Products - Test Group A | | | | | | | |
| HAST | JA110 130°C, 85%RH Vcc=5V, 96 hours | 3 lots, N=>77 | Q044752 | 0/80 | 1 | 3 lots 0/0 | Pass |
| | | | Q044789 | 0/80 | 1 | | |
| | | | Q044790 | 0/80 | 1 | | |
| UHAST | JA110 130°C, 85%RH 96 hours | 3 lots, N=>77 | Q045148 | 0/82 | 1 | 3 lots 0/0 | Pass |
| | | | Q045149 | 0/80 | 1 | | |
| | | | Q045150 | 0/80 | 1 | | |
| Temp Cycle | JA104 Cond C: -65°C to 150°C 500 cycles | 3 lots, N=>77 | Q044439 | 0/81 | 1 | 3 lots 0/0 | Pass |
| | | | Q044440 | 0/80 | 1 | | |
| | | | Q044441 | 0/80 | 1 | | |
| HTSL | JA103 150°C, 1000hr | 1 lot, N=>45 | Q044454 | 0/25 | 1 | 3 lots 0/0 | Pass |
| | | | Q044455 | 0/30 | 1 | | |
| | | | Q044456 | 0/30 | 1 | | |



UTAC 08/16-SOIC-150mil Qualification Report

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| Test Name | Test Condition | Qualification | Lot ID or Start | Fail/Pass or End | Notes | Summary | Status |
|---|--------------------------------|----------------|-----------------|------------------|-------|----------------|--------|
| 16-SOIC-150mil Si823x Products - Test Group C | | | | | | | |
| Wire Bond Shear | AEC-Q100-001 | 5 units, N=>30 | WQM2072 | 0/5 | | 3 lots 0/15 | Pass |
| | | | WQM2074 | 0/5 | | | |
| | | | WQM2075 | 0/5 | | | |
| Wire Bond Pull | M-STD-883 Performed post-TC | 5 units, N=>30 | WQM2072 | 0/5 | | 3 lots 0/15 | Pass |
| | | | WQM2074 | 0/5 | | | |
| | | | WQM2075 | 0/5 | | | |
| Physical Dimensions | JB100 | 3 lots, N=>10 | WQM2072 | 0/30 | | 3 lots 0/90 | Pass |
| | | | WQM2074 | 0/30 | | | |
| | | | WQM2075 | 0/30 | | | |
| Solderability | JB102 | 1 lot, N=>15 | WQM2072 | 0/10 | | 3 lots 0/30 | Pass |
| | | | WQM2074 | 0/10 | | | |
| | | | WQM2075 | 0/10 | | | |
| 16-SOIC-150mil Si84xx / Si86xx Products - Test Group C | | | | | | | |
| Wire Bond Shear | AEC-Q100-001 | 5 units, N=>30 | WQM2129 | 0/5 | | 3 lots 0/15 | Pass |
| | | | WQM2130 | 0/5 | | | |
| | | | WQM2131 | 0/5 | | | |
| Wire Bond Pull | M-STD-883 Performed post-TC | 5 units, N=>30 | WQM2129 | 0/5 | | 3 lots 0/15 | Pass |
| | | | WQM2130 | 0/5 | | | |
| | | | WQM2131 | 0/5 | | | |
| Physical Dimensions | JB100 | 3 lots, N=>10 | WQM2129 | 0/30 | | 3 lots 0/90 | Pass |
| | | | WQM2130 | 0/30 | | | |
| | | | WQM2131 | 0/30 | | | |
| Solderability | JB102 | 1 lot, N=>15 | WQM2129 | 0/10 | | 3 lots 0/30 | Pass |
| | | | WQM2130 | 0/10 | | | |
| | | | WQM2131 | 0/10 | | | |
| 08-SOIC-150mil Si84xx / Si86xx Products - Test Group C | | | | | | | |
| Wire Bond Shear | AEC-Q100-001 | 5 units, N=>30 | WQM2126 | 0/5 | | 3 lots 0/15 | Pass |
| | | | WQM2127 | 0/5 | | | |
| | | | WQM2128 | 0/5 | | | |
| Wire Bond Pull | M-STD-883 Performed post-TC | 5 units, N=>30 | WQM2126 | 0/5 | | 3 lots 0/15 | Pass |
| | | | WQM2127 | 0/5 | | | |
| | | | WQM2128 | 0/5 | | | |
| Physical Dimensions | JB100 | 3 lots, N=>10 | WQM2126 | 0/30 | | 3 lots 0/90 | Pass |
| | | | WQM2127 | 0/30 | | | |
| | | | WQM2128 | 0/30 | | | |
| Solderability | JB102 | 1 lot, N=>15 | WQM2126 | 0/10 | | 3 lots 0/30 | Pass |
| | | | WQM2127 | 0/10 | | | |
| | | | WQM2128 | 0/10 | | | |

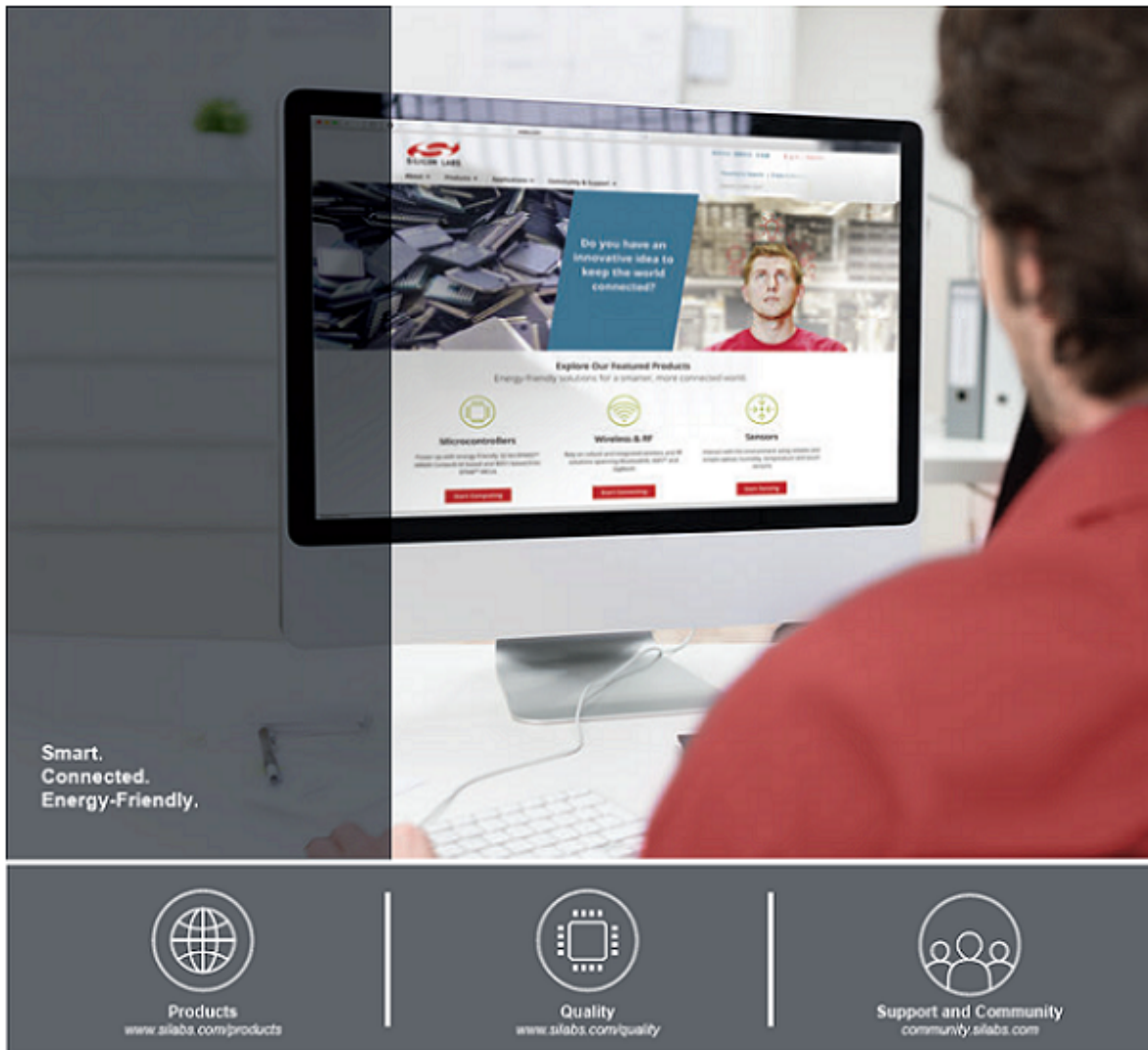


UTAC 08/16-SOIC-150mil Qualification Report

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| Test Name | Test Condition | Qualification | Lot ID or Start | Fail/Pass or End | Notes | Summary | Status |
|--|----------------|---------------|-----------------|------------------|-----------|---------|----------|
| Test Group E – Electrical Verification | | | | | | | |
| ESD-CDM | AEC-Q100-011 | 1 lot, N=>3 | Q044651 | 16-SOIC-150 | SI823x | 1.25 kV | Class C6 |
| | | | Q044640 | 16-SOIC-150 | SI84/86xx | 1.25 kV | Class C6 |
| | | | Q044638 | 08-SOIC-150 | SI84/86xx | 1.25 kV | Class C6 |

1. Parts are Pre-conditioned at MSL 2 @ 260°C



Disclaimer

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