



170713111 FAB 9 Tower Jazz Foundry Qualification

PCN Issue Date: 7/13/2017

Effective Date: 10/18/2017

PCN Type: Foundry

Description of Change

In order to meet the growing business demand of the below products, Silicon Labs is qualifying an additional wafer back end process at the FAB 9 Tower Jazz foundry. This new process is the processing of metal layers only with no impact to the overall circuit design. To assure quality, all assembly DOEs, control plans and other quality checks will be performed on production material produced at either location.

Upon the effective date of this PCN, wafer supply will be from either FAB 3 (Full process) or FAB 3 and Fab 9 (Front End and Back End). The qualification data will be provided by Silicon Labs when the full plan is completed (target is the end of September). Customer evaluations must begin immediately to assure supply continuity of the product.

Reason for Change

Capacity expansion.

Impact on Form, Fit, Function, Quality, Reliability

There is no impact on Form, Fit, Function, Quality and Reliability. There will be no change to RF performance and there will be no change needed to external BOM.

Product Identification

Si4030-B1-FM Si4030-B1-FMR
Si4031-B1-FM Si4031-B1-FMR
Si4032-B1-FM Si4032-B1-FMR
Si4313-B1-FM Si4313-B1-FMR
Si4330-B1-FM Si4330-B1-FMR
Si4430-B1-FM Si4430-B1-FMR
Si4431-B1-FM Si4431-B1-FMR
Si4432-B1-FM Si4432-B1-FMR

Last Date of Unchanged Product: 10/18/2017

Qualification Samples

Samples are available upon request.

Specific conditions of acceptance of this change will be considered on a case by case basis if written notice is submitted within 30 days of this notice. To request further data or inquire about this notification, please contact your local Silicon Labs sales representative. A list of Silicon Labs sales representatives is available at <http://www.silabs.com>.

In some cases rejection of a change notice may impact Silicon Labs product pricing, delivery, quality, or reliability.

Customer Early Acceptance Sign Off

Customers may approve early PCN acceptance by completing the information below:

Early Acceptance:

Date: _____

Name: _____

Company: _____

Email your early Acceptance approval 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

See Appendix.

Si4xxx Family of Devices Qualification Report



W7101F1 - Product Qualification Report Record Rev. J

| Part Rev B, Tower Jazz Fab 9 Fabrication, SPIL Assembly | | | | | | | |
|---|---|----------------|-------------------------------------|------------------|-------|----------------|-------------|
| Test Name | Test Condition | Qualification | Lot ID or Start | Fail/Pass or End | Notes | Summary | Status |
| Test Group A – Accelerated Environment Stress Tests | | | | | | | |
| UHAST | JA118 130°C, 85%RH 96 Hours | 1 lots, N=>77 | QP01482-4 | | 1 | TBD | In Progress |
| Temp Cycle | JA104 Cond C: -65°C to 150°C 500 cycles | 1 lots, N=>77 | QP01482-5 | | 1 | TBD | In Progress |
| Test Group B – Accelerated Lifetime Simulation Tests | | | | | | | |
| HTOL | JA108 T _j ≥ 125°C, Dynamic Vcc=5.5V, 1000 hours | 3 lots, N=>77 | QP01482-1 QP01482-2 QP01482-3 | | | TBD | In Progress |
| ELFR | AEC-Q100-008 T _j ≥ 125°C, Dynamic Vcc=5.5V, 48 hours | 1 lots, N=>800 | Q041579 | 0/800 | | 1 lot 0/800 | Passed |

Notes:

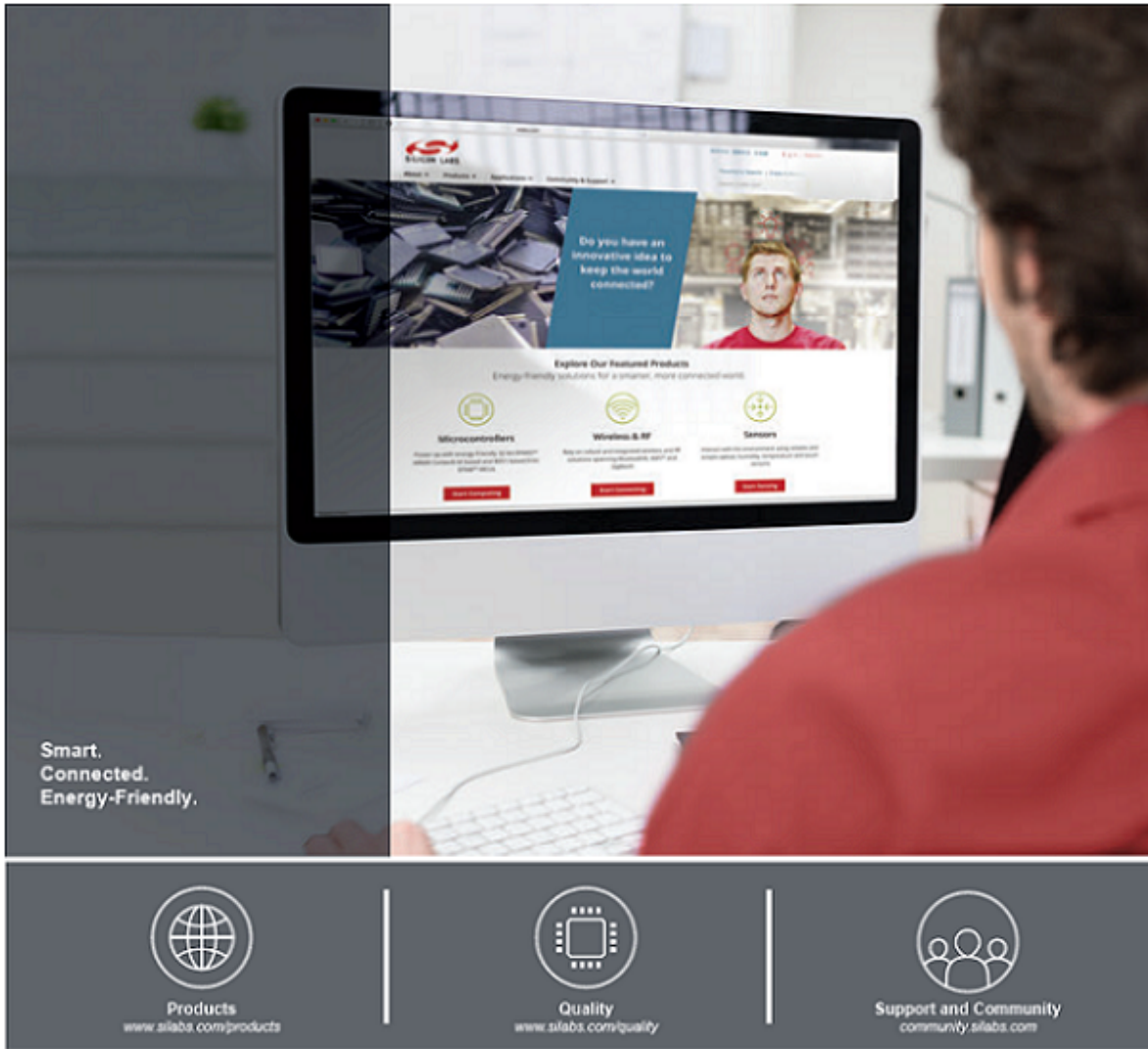
1. Parts are Pre-conditioned at MSL 1/ 260°C

| This report applies to the following part numbers: | |
|--|---------------|
| Si4030-B1-FM | Si4030-B1-FMR |
| Si4031-B1-FM | Si4031-B1-FMR |
| Si4032-B1-FM | Si4032-B1-FMR |
| Si4313-B1-FM | Si4313-B1-FMR |
| Si4330-B1-FM | Si4330-B1-FMR |
| Si4430-B1-FM | Si4430-B1-FMR |
| Si4431-B1-FM | Si4431-B1-FMR |
| Si4432-B1-FM | Si4432-B1-FMR |

Approved by: Ramon Ponsones

1 of 1

Prepared on: 10-July-17



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