



# 2605271814 New Assembly, Test and Ship Site and MOQ Change for BGM11S

**PCN Issue Date:** May 27, 2026

**Effective Date:** Sep 02, 2026

**PCN Type:** Assembly; Test

## Description of Change

Silicon Labs is pleased to announce the successful qualification of ASE Chung-Li as a new assembly, test, and ship site for BGM11S. There are no changes to the test program, data sheet parameters, test platform, or test hardware for the new test site qualification. The tray capacity will be updated from 260 to 377 units, and the Minimum Order Quantity (MOQ) for tray orders will be adjusted from 1300 to 1885 units accordingly.

Package reliability stresses, including Preconditioning, Temperature Cycling, High Temperature Storage Life (HTSL), and Unbiased Highly Accelerated Stress Test (uHAST), have been successfully completed and passed. Temperature Humidity Bias (THB) qualification is currently in progress, with partial lots completed due to socket board limitations. Based on existing reliability stress results, THB qualification is expected to pass. Final results will be published prior to the PCN effective date and will be available upon request.

ASE Chung-Li is an existing assembly, test and ship site for Silicon Labs, and is certified to ISO9001, ISO14001 and IATF 16949.

ASE Chung-Li Ship Address:  
ASE Chung-Li  
No. 550, Chung-Hwa Road, Section 1,  
Chung-Li, Taoyuan, 320, Taiwan

As of the effective date of the PCN, Silicon Labs will supply BGM11S modules from new qualified site.

## Software Impact Description

Not Applicable

## Reason for Change

Ensure supply continuity

## Impact on Form, Fit, Function, Quality, Reliability

There is no change on form, function, quality or reliability

## Product Identification

Existing Part #  
BGM11S12F256GA-V2  
BGM11S12F256GA-V2R  
BGM11S22F256GA-V2  
BGM11S22F256GA-V2R  
BM11S12P1263GA  
BM11S12P1263GAR  
BM11S12P1452GA  
BM11S12P1452GAR  
BM11S22P1419GA  
BM11S22P1419GAR  
BM11S22P1680GA

BM11S22P1680GAR

**Last Date of Unchanged Product:** Sep 02, 2026

### 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 <https://www.silabs.com>.

Customers may approve early PCN acceptance by emailing approval, along with PCN # to [PCN@silabs.com](mailto:PCN@silabs.com)

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### Qualification Data

Qualification report is attached in the Appendix

## BGM11S Qualification report



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### Part Rev A, TSMC Fabrication, Assembly except as noted

| Test Name                                                   | Test Condition                  | Qualification  | Lot ID or Start | Fail/Pass or End | Notes | Summary          | Status      |
|-------------------------------------------------------------|---------------------------------|----------------|-----------------|------------------|-------|------------------|-------------|
| Test Group A – Accelerated Environment Stress Tests (ASEKr) |                                 |                |                 |                  |       |                  |             |
| THB                                                         | JA101                           | 3 lots, N=>25  | Q044388         | 0/26             | 1     | 3 lots<br>0/78   | Pass        |
|                                                             | 85°C, 85%RH                     |                | Q044229         | 0/26             | 1, 4  |                  |             |
|                                                             | Vcc=3.8V, 1000 hours            |                | Q044230         | 0/26             | 1, 4  |                  |             |
| Temp Cycle                                                  | JA104                           | 3 lots, N=>25  | Q044381         | 0/25             | 1     | 3 lots<br>0/75   | Pass        |
|                                                             | Cond B: -55°C to 125°C          |                | Q044382         | 0/25             | 1     |                  |             |
|                                                             | 500 cycles                      |                | Q044225         | 0/25             | 1, 4  |                  |             |
| HTSL                                                        | JA103                           | 3 lots, N=>25  | Q044399         | 0/25             | 1     | 3 lots<br>0/75   | Pass        |
|                                                             | 150°C, 1000hr                   |                | Q044400         | 0/25             | 1     |                  |             |
|                                                             |                                 |                | Q044227         | 0/25             | 1, 4  |                  |             |
| UHASt                                                       | JA110                           | 3 lots, N=>25  | Q052712         | 0/25             | 1, 5  | 3 lots<br>0/75   | Pass        |
|                                                             | 130°C, 85%RH                    |                | Q052713         | 0/25             | 1, 5  |                  |             |
|                                                             | 96 hours                        |                | Q052714         | 0/25             | 1, 5  |                  |             |
| Test Group A – Accelerated Environment Stress Tests (ASECL) |                                 |                |                 |                  |       |                  |             |
| THB                                                         | JA101                           | 3 lots, N=>25  | Q052874         | 0/21             | 1     | 3 lots<br>0/55   | In-progress |
|                                                             | 85°C, 85%RH                     |                | Q052875         | 0/17             | 1     |                  |             |
|                                                             | Vcc=3.8V, 1000 hours            |                | Q052876         | 0/17             | 1     |                  |             |
| Temp Cycle                                                  | JA104                           | 3 lots, N=>25  | Q052868         | 0/25             | 1     | 3 lots<br>0/75   | Pass        |
|                                                             | Cond C: -65°C to 150°C          |                | Q052869         | 0/25             | 1     |                  |             |
|                                                             | 500 cycles                      |                | Q052870         | 0/25             | 1     |                  |             |
| HTSL                                                        | JA103                           | 3 lots, N=>25  | Q052871         | 0/25             | 1     | 3 lots<br>0/75   | Pass        |
|                                                             | 150°C, 1000hr                   |                | Q052872         | 0/25             | 1     |                  |             |
|                                                             |                                 |                | Q052873         | 0/25             | 1     |                  |             |
| UHASt                                                       | JA110                           | 3 lots, N=>25  | Q053078         | 0/25             | 1     | 3 lots<br>0/75   | Pass        |
|                                                             | 130°C, 85%RH                    |                | Q053079         | 0/25             | 1     |                  |             |
|                                                             | 96 hours                        |                | Q053080         | 0/25             | 1     |                  |             |
| Test Group B – Accelerated Lifetime Simulation Tests        |                                 |                |                 |                  |       |                  |             |
| HTOL                                                        | JA108                           | 3 lots, N=>77  | Q038136         | 0/80             | 2     | 4 lots<br>0/290  | Pass        |
|                                                             | T <sub>j</sub> ≥ 125°C, Dynamic |                | Q038102         | 0/53             | 2     |                  |             |
|                                                             | Vcc=3.8V, 1000 hours            |                | Q037998         | 0/78             | 2     |                  |             |
|                                                             |                                 |                | Q037622         | 0/79             | 2     |                  |             |
| LTOL                                                        | JA108                           | 1 lot, N=>32   | Q037624         | 0/40             | 2     | 1 lot<br>0/40    | Pass        |
| ELFR                                                        | JA108                           | 3 lots, N=>500 | Q038755         | 0/501            | 2     | 4 lots<br>0/2021 | Pass        |
|                                                             | T <sub>j</sub> ≥ 125°C, Dynamic |                | Q037570         | 0/508            | 2     |                  |             |
|                                                             | Vcc=3.8V, 48 hours              |                | Q037999         | 0/507            | 2     |                  |             |
|                                                             |                                 |                | Q038137         | 0/505            | 2     |                  |             |
| NVM Endurance, Retention and Operating Life                 | JA117                           | 3 lots, N=>39  | Q038147         | 0/40             | 2     | 3 lots<br>0/120  | Pass        |
|                                                             | 25°C                            |                |                 |                  |       |                  |             |
|                                                             | 500 hours                       |                |                 |                  |       |                  |             |

Approved by: Kelvin Lee

Prepared on : 11-May-26

BGM11S Qual report\_1

## BGM11S Qualification report



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### Part Rev A, TSMC Fabrication, Assembly except as noted

| Test Name                                   | Test Condition                          | Qualification | Lot ID or Start | Fail/Pass or End | Notes | Summary         | Status   |
|---------------------------------------------|-----------------------------------------|---------------|-----------------|------------------|-------|-----------------|----------|
| NVM Endurance, Retention and Operating Life | JA117                                   | 3 lots, N=>39 | Q038066         | 0/40             | 2     | 4 lots<br>1/159 | Pass     |
|                                             | 125°C                                   |               | Q038028         | 0/40             | 2     |                 |          |
|                                             | 1000 hours                              |               | Q038024         | 1/39             | 2, 3  |                 |          |
|                                             |                                         |               | Q037652         | 0/40             | 2     |                 |          |
| Test Group E – Electrical Verification      |                                         |               |                 |                  |       |                 |          |
| ESD-HBM                                     | JS-001                                  | 1 lot, N=>3   | Q040933         |                  | 2     | 2 kV            | Class 2  |
| ESD-CDM                                     | JESD22-C101                             | 1 lot, N=>3   | Q040932         |                  | 2     | 500 V           | Class II |
|                                             |                                         |               | Q052941         |                  |       | 500 V           |          |
| Latch Up                                    | JESD78<br>±200mA<br>Overvoltage = 2.85V | 1 lot, N=>3   | Q040936         | 125 °C           | 2     |                 | Pass     |

#### Notes:

1. Parts are Pre-conditioned at MSL3/260°C
2. Leveraged die family qualification data
3. Failure analysis on the failure was inconclusive. An additional 40 units were stressed from the same wafer lot (Q038028) to reduce the LTPD% below the requirement. LTPD% = 5.76 at 90% confidence with 0 fails and a sample size =40.
4. Leveraged package family qualification data
5. ASEKR/ASECL joint partial shield assembly

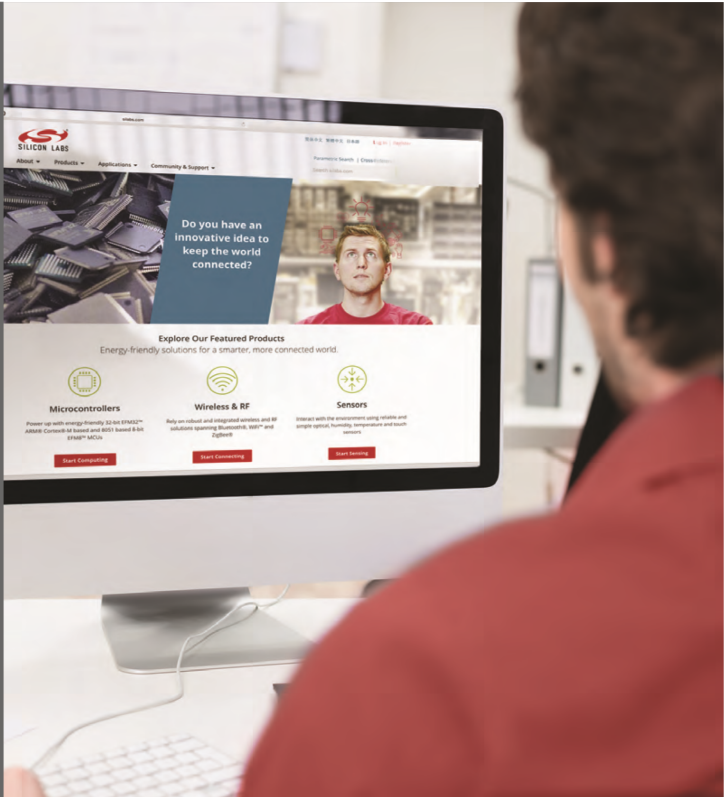
#### This report applies to the following part numbers:

|                                   |                                     |
|-----------------------------------|-------------------------------------|
| BGM11S12F256GA-V2 (BM11S12GGA-V2) | BGM11S12F256GA-V2R (BM11S12GGA-V2R) |
| BGM11S22F256GA-V2 (BM11S22GGA-V2) | BGM11S22F256GA-V2R (BM11S22GGA-V2R) |

Approved by: Kelvin Lee

Prepared on : 11-May-26

### BGM11S Qual report\_2



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