



Product Change Notification

CN-202411027FU01

**Issue date:** 13 Jun 2025

**Effective date:** 28 Jun 2025

Here's your personalized quality information concerning products our customers and partners purchased from Nexperia.

For more details please contact your respective Nexperia CSR/AM.



**Change of die design and release of 8 inch wafer diameter for switching diodes plus datasheet update**

**Change Category**

- |   |   |  |   |   |
|---|---|--|---|---|
| <input checked="" type="checkbox"/> Wafer Fab Process   | <input type="checkbox"/> Assembly Process   | <input type="checkbox"/> Product Marking           | <input type="checkbox"/> Test Location  | <input checked="" type="checkbox"/> Design              |
| <input checked="" type="checkbox"/> Wafer Fab Materials | <input type="checkbox"/> Assembly Materials | <input type="checkbox"/> Mechanical Specification  | <input type="checkbox"/> Test Process   | <input type="checkbox"/> Errata                         |
| <input type="checkbox"/> Wafer Fab Location             | <input type="checkbox"/> Assembly Location  | <input type="checkbox"/> Packing/Shipping/Labeling | <input type="checkbox"/> Test Equipment | <input type="checkbox"/> Electrical spec./Test coverage |

**Details of this change**

Reason for update: Typo in the graph "Reverse current as a function of junction temperature; typical values" in datasheet of BAW101S, BAW101S-Q and BAW101. The

unit of the Y-axis (IR) was incorrectly specified in mA and has now been corrected to  $\mu\text{A}$ .

Change Matrix for BAS21SW corrected, as IFSM Graph has not been changed for this type.

The following changes are affected: - New die design - the passivation nitride thickness and the EPI layer concentration have been slightly modified to improve processing robustness - change from 6 inch to 8 inch - change of lithography from full field lithography to stepper lithography - Datasheet update - (see SQR for details)

CN-202411027F\_changeMatrix.xlsx: [https://qcm.nexperia.com/Document/DOC-596077/CN-202411027F\\_changeMatrix.xlsx](https://qcm.nexperia.com/Document/DOC-596077/CN-202411027F_changeMatrix.xlsx)

SQR\_CN\_202411027FU01.pdf: [https://qcm.nexperia.com/Document/DOC-596046/SQR\\_CN\\_202411027FU01.pdf](https://qcm.nexperia.com/Document/DOC-596046/SQR_CN_202411027FU01.pdf)

Datasheet\_CN-202411027FU01.zip: [https://qcm.nexperia.com/Document/DOC-596045/Datasheet\\_CN-202411027FU01.zip](https://qcm.nexperia.com/Document/DOC-596045/Datasheet_CN-202411027FU01.zip)

PCN-FORM-Rev\_CN-202411027F.xlsm: [https://qcm.nexperia.com/Document/DOC-590494/PCN-FORM-Rev\\_CN-202411027F.xlsm](https://qcm.nexperia.com/Document/DOC-590494/PCN-FORM-Rev_CN-202411027F.xlsm)

ChemicalContents\_CN-202411027F\_20250303.zip:  
[https://qcm.nexperia.com/Document/DOC-590445/ChemicalContents\\_CN-202411027F\\_20250303.zip](https://qcm.nexperia.com/Document/DOC-590445/ChemicalContents_CN-202411027F_20250303.zip)

PCN-Delta-Qualification-Matrix-CN-202411027F.xlsm:  
<https://qcm.nexperia.com/Document/DOC-590157/PCN-Delta-Qualification-Matrix-CN-202411027F.xlsm>

### **Why do we implement this change?**

Improve processing robustness - Increase of production capacity

### **Identification of affected products**

Changed products can be identified by date code after implementation.

**Product availability**

**Production**

Planned first shipment: 24 Jun 2025

Existing inventory will be shipped until depleted

### **Sample information**

Samples are available upon request

### **Impact**

No impact to the product's functionality anticipated

### **Data sheet revision**

A new datasheet will be issued

### **Feedback**

Your acknowledgement of this change, conform JEDEC J-STD-046, is expected till 23 Jun 2025. Lack of acknowledgement of the PCN constitutes acceptance of the change.

### **Additional information**

[View Change Notification Online](#)

### **Update history**

Reason for update: Typo in the graph "Reverse current as a function of junction temperature; typical values" in datasheet of BAW101S, BAW101S-Q and BAW101. The unit of the Y-axis (IR) was incorrectly specified in mA and has now been corrected to  $\mu$ A. Change Matrix for BAS21SW corrected, as IFSM Graph has not been changed for this type.

### **Contact and support**

For all Quality Notification content inquiries, please contact your local Nexperia Sales Support Team.

For specific questions on this notice or the products affected please contact our specialist directly: [pcn@nexperia.com](mailto:pcn@nexperia.com)

In case of distribution, please contact you distribution partner.

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