

**Final Product Change Notification**

201905004F01

**Issue Date:** 07-Jul-2019  
**Effective Date:** 20-Oct-2019

Here's your personalized quality information concerning products Digi-Key purchased from Nexperia.  
 For detailed information we invite you to view this notification online



**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 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 |

**Release of 8 inch wafer diameter for transistors in SOT883 and SOT23**

**Details of this Change**

Release of 8 inch wafer diameter for transistors in SOT883, SOT883B and xMBT3906 products in SOT23.  
 Old products: Production using 6 inch wafer diameter  
 Changed products: Production using 6 and 8 inch wafer diameter  
 Selected types have a change in die size due to a reduction of saw lane width along with release of 8 inch wafer diameter.  
 Please refer to the Self Qualification Report for details and list of affected product types.  
 Production on 8 inch wafer diameter implies the use of the respective 8 inch wafer process technology.

**Why do we implement this Change**

- Capacity expansion in wafer fab
- Next phase in 8inch release after start with 8inch implementation of bipolar transistors in 2011
- Continued alignment with world technology trends on state of the art production tools for Discrete components
- Increase flexibility and volume ramp-up

**Identification of Affected Products**

The 8 inch products can be identified by a marker on the die surface.  
 Changed products can be identified by date code after implementation.

## Product Availability

### Sample Information

Samples are available upon request  
Latest sample request date for PCN samples is 31-July-2019.

### Production

Planned first shipment 14-Oct-2019

## Impact

No impact to the products' functionality anticipated.

### Data Sheet Revision

No impact to existing datasheet

### Disposition of Old Products

Existing inventory will be shipped until depleted  
Supply using 6 inch wafer will be continued in parallel to 8 inch wafer production.

## Timing and Logistics

Your acknowledgement of this change, conform JEDEC J-STD-046, is expected till 06-Aug-2019. Lack of acknowledgement of the PCN constitutes acceptance of the change.

## Contact and Support

For all inquiries regarding the ePCN tool application or access issues, please contact Nexperia "Global Quality Support Team".

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:

**e-mail address** PCN-Bipolar.Discretetes@nexperia.com

At Nexperia B.V. we are constantly striving to improve our product and processes to ensure they reach the highest possible Quality Standards.

## About Nexperia B.V.

We at Nexperia are the efficiency semiconductor company. We deliver over 90 billion products a year and as such service thousands of global customers, both directly and through our extensive network of channel partners. We are at the heart of billions of electronic devices in the Automotive, Mobile, Industrial, Consumer, Computing, and Communication Infrastructure segments.

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Nexperia |

Nexperia B.V.

Jonkerbosplein 52 6534 AB Nijmegen, The Netherlands

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| Changed Orderable Part# | Changed Part 12NC | Changed Part Number | Changed Part Description   | Package Outline | Package Name | Status | Product Line      |
|-------------------------|-------------------|---------------------|----------------------------|-----------------|--------------|--------|-------------------|
| PBSS3540M,315           | 934057155315      | PBSS3540M           | BISS                       | SOT883          | XQFN3        | RFS    | Bipolar Discretes |
| PMBT3906M,315           | 934063476315      | PMBT3906M           | Switching transistor       | SOT883          | XQFN3        | RFS    | Bipolar Discretes |
| BC847BMB,315            | 934065886315      | BC847BMB            | General-purpose transistor | SOT883B         | XQFN3        | RFS    | Bipolar Discretes |
| BC857CM,315             | 934057148315      | BC857CM             | General-purpose transistor | SOT883          | XQFN3        | RFS    | Bipolar Discretes |
| BC856BMYL               | 934069544315      | BC856BM             | General-purpose transistor | SOT883          | XQFN3        | RFS    | Bipolar Discretes |
| PMBT3906,235            | 933776010235      | PMBT3906            | Switching transistor       | SOT23           | TO-236AB     | RFS    | Bipolar Discretes |
| BC847CM,315             | 934057151315      | BC847CM             | General-purpose transistor | SOT883          | XQFN3        | RFS    | Bipolar Discretes |
| BC847BM,315             | 934057150315      | BC847BM             | General-purpose transistor | SOT883          | XQFN3        | RFS    | Bipolar Discretes |
| PMBT3904M,315           | 934063475315      | PMBT3904M           | Switching transistor       | SOT883          | XQFN3        | RFS    | Bipolar Discretes |
| BC846BM,315             | 934066322315      | BC846BM             | General-purpose transistor | SOT883          | XQFN3        | RFS    | Bipolar Discretes |
| PMBT3904MB,315          | 934065892315      | PMBT3904MB          | General-purpose transistor | SOT883B         | XQFN3        | RFS    | Bipolar Discretes |
| MMBT3906,215            | 933864370215      | MMBT3906            | SWITCHING TRANSISTOR       | SOT23           | TO-236AB     | RFS    | Bipolar Discretes |
| 2PC4617QM,315           | 934057152315      | 2PC4617QM           | General-purpose transistor | SOT883          | XQFN3        | RFS    | Bipolar Discretes |
| BC857BM,315             | 934057147315      | BC857BM             | General-purpose transistor | SOT883          | XQFN3        | RFS    | Bipolar Discretes |
| BC847AMB,315            | 934065885315      | BC847AMB            | General-purpose transistor | SOT883B         | XQFN3        | RFS    | Bipolar Discretes |
| PBSS2540MB,315          | 934065876315      | PBSS2540MB          | BISS                       | SOT883B         | XQFN3        | RFS    | Bipolar Discretes |
| BC856BMBYL              | 934069543315      | BC856BMB            | General-purpose transistor | SOT883B         | XQFN3        | RFS    | Bipolar Discretes |
| PMBT3906MB,315          | 934065893315      | PMBT3906MB          | General-purpose transistor | SOT883B         | XQFN3        | RFS    | Bipolar Discretes |
| PBSS3540MB,315          | 934065878315      | PBSS3540MB          | BISS                       | SOT883B         | XQFN3        | RFS    | Bipolar Discretes |
| PBSS2540M,315           | 934057157315      | PBSS2540M           | BISS                       | SOT883          | XQFN3        | RFS    | Bipolar Discretes |
| PMBT3906,215            | 933776010215      | PMBT3906            | Switching transistor       | SOT23           | TO-236AB     | RFS    | Bipolar Discretes |