

Final Product Change Notification

202001004F01

Issue Date: 01-Apr-2020

Effective Date: 14-Jul-2020

Dear *Emma Tempest*,

Here's your personalized quality information concerning products Premier Farnell PLC 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 checked="" 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

Details of this Change

Release of 8 inch wafer diameter for transistors.

Old products: Production using 6 inch wafer diameter

Changed products: Production using 6 and 8 inch wafer diameter

In addition, for the BCM846BS wire bond material will be changed from gold (Au) to copper (Cu) and the 2nd source mold compound will be released, for the PMST3906 lead frame design version SOT323 R1 will be introduced.

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 8 inch release after start with 8 inch 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 01-May-2020.

Production

Planned first shipment 14-Jul-2020

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.

Related Notifications

Notification	Issue Date	Effective Date	Title
201411005F0126	Jan-2015	10-May-2015	Change of bond wire from Au to Cu and release of 2nd source mold compound in SOT363
201602003F0122	May-2016	03-Sep-2016	Release of 8 inch wafer diameter for low VCEsat (BISS) transistors
201712005F0130	Apr-2018	29-Jul-2018	Change of lead frame version in SOT323 package
201811008F0110	Apr-2019	23-Jul-2019	Release of 8 inch wafer diameter for general-purpose bipolar transistors
201905004F0107	Jul-2019	20-Oct-2019	Release of 8 inch wafer diameter for transistors in SOT883 and SOT23

Additional information

Affected products and sales history information: see attached file



Self qualification: [view online](#)

Additional documents: [view online](#)

Timing and Logistics

Your acknowledgement of this change, conform JEDEC J-STD-046, is expected till 01-May-2020. 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.Discretes@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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