nexperia

Final Product Change Notification

201812001F01

Issue Date: 14-Jan-2019
Effective Date: 28-Apr-2019
Dear *Tracy Hoglin*,

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

[X] Wafer Fab Process	[ ] Assembly Process	[ ] Product Marking	[ ] Test Location	[ ] Design
[X] Wafer Fab Materials	[ ] Assembly Materials	[ ] Mechanical Specification	[ ]Test Process	[ ] Errata
[ ] Wafer Fab Location	[ ] Assembly Location	[ ] Packing/Shipping/Labeling	[ ] Test Equipment	[ ] Electrical spec./Test coverage

Release of 8 inch wafer diameter for resistor-equipped Transistors (RET) in SOT363

Details of this Change

Release of production using 8 inch wafer diameter, 2nd source epitaxy, new doping material for the poly silicon resistors and increased top side metalliziation thickness from 1.4 µm to 1.5 µm for resistor-equipped Transistors (RET) in SOT363 package.

Old Products:
- 6 inch wafer diameter
- inhouse epitaxy
- current doping material for the poly silicon resistors
- 1.4 µm top metallization thickness

Changed Products:
- 6 inch or 8 inch wafer diameter
- inhouse epitaxy (6 inch and 8 inch) or external epitaxy (8 inch) wafer diameter
- old doping material (6 inch) or new doping material (8 inch) for the poly silicon resistors
- 1.4 µm (6 inch) or 1.5 µm (8 inch) top metallization thickness

Production on 8 inch wafer diameter implies the use of the respective 8 inch wafer process technology.

Why do we Implement this Change
(1) To increase flexibility and volume ramp-up.
(2) To increase flexibility, volume ramp-up and reduced supply chain risk.
(3) Improved resistance linearity.
(4) Align to 8 inch wafer diameter process and to increase process robustness.
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-January-2019.
Production
Planned first shipment 01-May-2019

Impact

No impact to the products' functionality anticipated.
Disposition of Old Products
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 13-Feb-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.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 70 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 B.V.
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Changed Orderable Part#	Changed Part 12NC	Changed Part Number	Changed Part Description	Package Outline	Package Name	Status	Product Line
PUMB2,115	934055443115	PUMB2	RET	SOT363	SC-88	RFS	Bipolar Discretes
PUMH9,115	934055557115	PUMH9	RET	SOT363	SC-88	RFS	Bipolar Discretes
PUMD48,165	934055444165	PUMD48	RET	SOT363	SC-88	RFS	Bipolar Discretes
PUMH11,115	934049930115	PUMH11	RET	SOT363	SC-88	RFS	Bipolar Discretes
PUMH1,115	934054827115	PUMH1	RET	SOT363	SC-88	RFS	Bipolar Discretes
PUMD3,165	934050170165	PUMD3	RET	SOT363	SC-88	RFS	Bipolar Discretes
PUMD3,115	934050170115	PUMD3	RET	SOT363	SC-88	RFS	Bipolar Discretes
PUMD12,115	934055432115	PUMD12	RET	SOT363	SC-88	RFS	Bipolar Discretes
PUMD2,115	934049950115	PUMD2	RET	SOT363	SC-88	RFS	Bipolar Discretes
PUMH9,125	934055557125	PUMH9	RET	SOT363	SC-88	RFS	Bipolar Discretes
PUMD48,115	934055444115	PUMD48	RET	SOT363	SC-88	RFS	Bipolar Discretes
PUMH10,115	934056189115	PUMH10	RET	SOT363	SC-88	RFS	Bipolar Discretes
PUMB11,115	934056289115	PUMB11	RET	SOT363	SC-88	RFS	Bipolar Discretes
PUMH15,115	934057896115	PUMH15	RET	SOT363	SC-88	RFS	Bipolar Discretes
PUMH2,115	934055787115	PUMH2	RET	SOT363	SC-88	RFS	Bipolar Discretes
PUMD10,115	934055239115	PUMD10	RET	SOT363	SC-88	RFS	Bipolar Discretes
PUMH10,125	934056189125	PUMH10	RET	SOT363	SC-88	RFS	Bipolar Discretes
PUMD15,115	934057891115	PUMD15	RET	SOT363	SC-88	RFS	Bipolar Discretes
PUMD48,125	934055444125	PUMD48	RET	SOT363	SC-88	RFS	Bipolar Discretes
PUMD9,115	934055050115	PUMD9	RET	SOT363	SC-88	RFS	Bipolar Discretes
PUMD3,135	934050170135	PUMD3	RET	SOT363	SC-88	RFS	Bipolar Discretes
PUMD18,115	934058903115	PUMD18	RET	SOT363	SC-88	RFS	Bipolar Discretes