

**Final Product Change Notification**

201903006F01

**Issue Date:** 01-Jul-2019  
**Effective Date:** 13-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 resistor-equipped transistors (RET) in SOT363**

**Details of this Change**

Release of production using 8 inch wafer diameter, 2nd source epitaxy and new doping material for the poly silicon resistors for resistor-equipped transistors (RET) in SOT363 package.

For some affected products the 8 inch conversion is combined with the introduction of a smaller die pitch size.

- (1) Release of production using 8 inch wafer diameter for all product types.
- (2) 2nd source epitaxy supplier for all product types.
- (3) New doping material for the poly silicon resistors for all product types.
- (4) A few product types will be changed to a smaller die pitch size (330 µm x 330 µm instead of 400 µm x 400 µm).

**Old Products:**

- 6 inch wafer diameter
- inhouse epitaxy
- current doping material for the poly silicon resistors
- 400 µm x 400 µm die pitch size (where affected)

**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
- 400 µm x 400 µm (6 inch) or 330 µm x 330 µm (8 inch) die pitch size (where affected)

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) Volume ramp-up, increase of wafer fab capacity and flexibility.

#### **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.

#### **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 31-Jul-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.

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

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#### **Affected Part Numbers**

PUMD13,115  
PUMB13,115  
PUMD16,115  
PUMH20,115  
PUMH13,115  
PUMH16,115  
PUMH17,115  
PUMD17,115