

# Product/Process Change Notification

N° 2020-129-A

Dear customer,

please find attached our Infineon Technologies AG PCN:

## Several changes affecting Classic HITFET™ 24V and Classic PROFET™ products with MSMART technology

Important information for your attention:

- Please respond to this PCN by indicating your decision on the approval form, sign it and return to your sales partner before 2022-04-07.
- Infineon aligns with the widely-recognized JEDEC STANDARD “JESD46”, which stipulates: “Lack of acknowledgement of the PCN within 30 days constitutes acceptance of the change.”  
Notwithstanding the aforesaid individual agreements shall prevail.

Your prompt reply will help Infineon to assure a smooth and well-executed transition. If Infineon does not hear from your side by the due date, we will assume your full acceptance to this proposed change and its implementation.

Your attention and response to this matter is greatly appreciated.



On 16 April 2020, Infineon acquired Cypress.

We are now in the process of merging and consolidating our tools and processes for PCN, Information Notes, Errata and Product Discontinuance.

For further details, please visit our website:

<https://www.infineon.com/cms/en/about-infineon/company/cypress-acquisition/>

Infineon Technologies AG

Postal Address Headquarters: Am Campeon 1-15, D-85579 Neubiberg, Phone +49 (0)89 234-0

Chairman of the Supervisory Board: Dr. Wolfgang Eder

Management Board: Dr. Reinhard Ploss (CEO), Dr. Helmut Gassel, Jochen Hanebeck, Constanze Hufenbecher, Dr. Sven Schneider

Registered Office: Neubiberg

Commercial Register: München HRB 126492

# Product/Process Change Notification

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## Products affected

Please refer to attached affected product list PCN\_2020-129-A\_[customer-no].pdf

## Detailed change information

**Subject:** Several changes affecting Classic HITFET™ 24V and Classic PROFET™ products with MSMART technology

**Reason/Motivation:** Due to continuously raising demand for Infineon automotive products exceeding the capacity in location Villach, the wafer production and test for MSMART products is transferred to Kulim. As continuous improvement, mold compound is changed to halogen free for many MSMART products. For process harmonization, the top chip metallization of the affected Classic HITFET™ 24V products is changed to AlSiCu.

### Description Old

### New

|  |  |  |
|--|--|--|
| <b>PROCESS - WAFER PRODUCTION:</b><br>New / change of metallization (specifically chip frontside)            | <b>Classic HITFET™ 24V products:</b><br>Front side metallization of top chip AlSi    | <b>Classic HITFET™ 24V products:</b><br>Front side metallization of top chip AlSiCu    |
| <b>PROCESS - WAFER PRODUCTION:</b><br>Move all or parts of production to a different wafer fab site          | <b>All products:</b><br>Infineon Technologies Austria AG, Villach, Austria           | <b>All products:</b><br>Infineon Technologies (Kulim) Sdn. Bhd., Kulim, Malaysia       |
| <b>PROCESS - ASSEMBLY:</b><br>Change of mold compound / encapsulation material                               | <b>Classic HITFET™ 24V and Classic PROFET™ products in PG-TOx package:</b><br>MP195H | <b>Classic HITFET™ 24V and Classic PROFET™ products in PG-TOx package:</b><br>KMC2110G |
| <b>TEST FLOW:</b><br>Move of all or part of electrical wafer test and/or final test to a different test site | <b>All products:</b><br>Infineon Technologies Austria AG, Villach, Austria           | <b>All products:</b><br>Infineon Technologies (Kulim) Sdn. Bhd., Kulim, Malaysia       |
| <b>SP number change</b>  | see 4_cip20129_A   |  |

## Product identification

Wafer lot numbers from Villach start with VExxxxxx.  
 Wafer lot numbers from Kulim with 1Exxxxxx.  
 Traceability assured via date code.  
 SP ordering number changed for products with mold compound change.

## Anticipated impact of change

Based on the qualification performed, Infineon does not expect any negative impact on quality, function and reliability. No change in form, fit and function expected.

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N° 2020-129-A

DeQuMa-ID(s): SEM-PW-07 / SEM-PW-13 / SEM-PA-11 / SEM-TF-01

## Attachments

|                                  |                       |
|----------------------------------|-----------------------|
| PCN_2020-129-A_[customer-no].pdf | affected product list |
| 4_cip20129_A                     | SP list overview      |

## Time schedule

|                                |            |
|--------------------------------|------------|
| Final qualification report     | available  |
| First samples available        | on request |
| Intended start of delivery [1] | 2022-08-29 |
| Last order date (LOD) [2]      | 2022-08-29 |
| Last delivery date (LDD) [3]   | 2023-08-29 |

[1] Provided date or earlier after customer approval

[2] Last time buy volume to be placed latest until LOD

[3] Delivery of new product can be earlier (see Intended start of delivery) and depends on approval

If you have any questions, please do not hesitate to contact your local sales office.

## PCN 2020-129-A

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Affected products sold to DIGI-KEY (4002348)

| Sales name      | SP number   | OPN                     | Package      | Customer part number    |
|-----------------|-------------|-------------------------|--------------|-------------------------|
| BTS117          | SP001003104 | BTS117BKSA1             | PG-TO220-3-1 | BTS117BKSA1             |
| BTS117TC        | SP000668258 | BTS117TCBUMA1           | PG-TO263-3-2 | BTS117TCBUMA1           |
| BTS133          | SP001003102 | BTS133BKSA1             | PG-TO220-3-1 | BTS133BKSA1             |
| BTS133TC        | SP000668256 | BTS133TCBUMA1           | PG-TO263-3-2 | BTS133TCBUMA1           |
| BTS141          | SP001003100 | BTS141BKSA1             | PG-TO220-3-1 | BTS141BKSA1             |
| BTS141TC        | SP000668254 | BTS141TCBUMA1           | PG-TO263-3-2 | BTS141TCBUMA1           |
| BTS409L1 E3062A | SP001104814 | BTS409L1E3062ABU<br>MA1 | PG-TO263-5-2 | BTS409L1E3062ABU<br>MA1 |
| BTS426L1 E3062A | SP001104820 | BTS426L1E3062ABU<br>MA1 | PG-TO263-5-2 | BTS426L1E3062ABU<br>MA1 |
| BTS612N1 E3128A | SP001104824 | BTS612N1E3128ABU<br>MA1 | PG-TO263-7-2 | BTS612N1E3128ABU<br>MA1 |
| BTS621L1 E3128A | SP001104826 | BTS621L1E3128ABU<br>MA1 | PG-TO263-7-2 | BTS621L1E3128ABU<br>MA1 |
| BTS711L1        | SP000379623 | BTS711L1XUMA1           | PG-DSO-20-31 | BTS711L1XUMA1           |
| BTS712N1        | SP000317660 | BTS712N1XUMA1           | PG-DSO-20-31 | BTS712N1XUMA1           |
| BTS721L1        | SP000317661 | BTS721L1XUMA1           | PG-DSO-20-31 | BTS721L1XUMA1           |

**PCN N° 2020-129-A**

Several changes affecting Classic HITFET™ 24V and Classic PROFET™ products with MSMART technology

| Sales name      | SP number - OLD | OPN - OLD           | SP number - NEW | OPN - NEW           | Package      |
|-----------------|-----------------|---------------------|-----------------|---------------------|--------------|
| BTS117          | SP001003104     | BTS117BKSA1         | SP005591082     | BTS117AKSA1         | PG-TO220-3-1 |
| BTS117TC        | SP000668258     | BTS117TCBUMA1       | SP005591084     | BTS117TCAUMA1       | PG-TO263-3-2 |
| BTS133          | SP001003102     | BTS133BKSA1         | SP005591087     | BTS133AKSA1         | PG-TO220-3-1 |
| BTS133TC        | SP000668256     | BTS133TCBUMA1       | SP005591089     | BTS133TCAUMA1       | PG-TO263-3-2 |
| BTS141          | SP001003100     | BTS141BKSA1         | SP005579212     | BTS141AKSA1         | PG-TO220-3-1 |
| BTS141TC        | SP000668254     | BTS141TCBUMA1       | SP005579209     | BTS141TCAUMA1       | PG-TO263-3-2 |
| BTS409L1 E3062A | SP001104814     | BTS409L1E3062ABUMA1 | SP005591068     | BTS409L1E3062AAUMA1 | PG-TO263-5-2 |
| BTS426L1 E3062A | SP001104820     | BTS426L1E3062ABUMA1 | SP005591070     | BTS426L1E3062AAUMA1 | PG-TO263-5-2 |
| BTS612N1 E3128A | SP001104824     | BTS612N1E3128ABUMA1 | SP005591072     | BTS612N1E3128AAUMA1 | PG-TO263-7-2 |
| BTS621L1 E3128A | SP001104826     | BTS621L1E3128ABUMA1 | SP005579223     | BTS621L1E3128AAUMA1 | PG-TO263-7-2 |