

Product / Process Change Notification



N° 2019-034-A

Dear Customer,

Please find attached our INFINEON Technologies PCN:

Several changes affecting OPTIMOS-P2 Power-Transistor technology 30V and 40V in PG-TO220, PG-TO252, PG-TO263 packages

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 **20th November 2019**.
- 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.**”

Your prompt reply will help Infineon Technologies 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.

Infineon Technologies AG
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Chairman of the Supervisory Board: Dr. Wolfgang Eder
Management Board: Dr. Reinhard Ploss (CEO), Dr. Helmut Gassel, Jochen Hanebeck, Dr. Sven Schneider
Registered Office: Neubiberg
Commercial Register: München HRB 126492

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► **Products affected:** Please refer to attached affected product list 1_cip19034_A

► **Detailed Change Information:**

Subject: Several changes affecting OPTIMOS-P2 Power-Transistor technology 30V and 40V in PG-TO220, PG-TO252, PG-TO263 packages

Reason: Continuous portfolio improvement

Description: Old New

	<u>Old</u>	<u>New</u>
Datasheet updates	<ul style="list-style-type: none"> ■ IPD90P04P4-05: Rev 1.1 ■ IPD50P04P4-13: Rev 1.2 ■ IPD50P04P4L-11: Rev 1.0 ■ IPD70P04P4L-08: Rev 1.1 ■ IPD85P04P4L-06: Rev 1.0 ■ IPD90P04P4L-04: Rev 1.1 ■ IPB180P04P4L-02: Rev 1.3 ■ IPB120P04P4L-03: Rev 1.1 ■ IPP120P04P4L-03: Rev 1.1 ■ IPB80P04P4L-04: Rev 1.0 ■ IPB80P04P4L-06: Rev 1.0 ■ IPB80P04P4L-08: Rev 1.0 	<ul style="list-style-type: none"> ■ IPD90P04P4-05: Rev 1.2 ■ IPD50P04P4-13: Rev 1.3 ■ IPD50P04P4L-11: Rev 1.1 ■ IPD70P04P4L-08: Rev 1.2 ■ IPD85P04P4L-06: Rev 1.1 ■ IPD90P04P4L-04: Rev 1.2 ■ IPB180P04P4L-02: Rev 1.4 ■ IPB120P04P4L-03: Rev 1.2 ■ IPP120P04P4L-03: Rev 1.2 ■ IPB80P04P4L-04: Rev 1.1 ■ IPB80P04P4L-06: Rev 1.1 ■ IPB80P04P4L-08: Rev 1.1

Chip dimension:	<ul style="list-style-type: none"> ■ IPB45P03P4L-11: 2.2*1.7mm² ■ IPD50P03P4L-11: 2.2*1.7mm² ■ IPD50P04P4-13: 2.2*1.7mm² ■ IPD50P04P4L-11: 2.2*1.7mm² 	<ul style="list-style-type: none"> ■ IPB45P03P4L-11: 2.2*1.72mm² ■ IPD50P03P4L-11: 2.2*1.72mm² ■ IPD50P04P4-13: 2.2*1.72mm² ■ IPD50P04P4L-11: 2.3*1.72mm²
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New passivation layer	<ul style="list-style-type: none"> ■ Without SNIT (silicon nitride) and IMIDE passivation 	<ul style="list-style-type: none"> ■ With SNIT (silicon nitride) and IMIDE passivation
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Additional W-deposition location	<ul style="list-style-type: none"> ■ Infineon Technologies AG, Regensburg, Germany 	<ul style="list-style-type: none"> ■ Infineon Technologies AG, Regensburg, Germany or Infineon Technologies Austria AG, Villach, Austria
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SP number see 5_cip19034_A

► **Product Identification:** Traceability assured via date code.

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► Impact of Change:

Based on the qualification performed, Infineon does not see any negative impact on quality, function and reliability.

DeQuMa-IDs: SEM-DS-02 / SEM-DE-03 / SEM-PW-08 / SEM-PW-13

► Attachments:

1_cip19034_A affected product list

4_cip19034_A datasheet update

5_cip19034_A replacement table (SP number)

► Time Schedule:

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|-------------------------------|--|
| ■ Final qualification report: | available |
| ■ First samples available: | on request |
| ■ Intended start of delivery: | 2020-March-30 or earlier after customer approval |

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