

# 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 **20<sup>th</sup> 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

# Product / Process Change Notification



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

<b>Chip dimension:</b>	<ul style="list-style-type: none"> <li>■ IPB45P03P4L-11: 2.2*1.7mm<sup>2</sup></li> <li>■ IPD50P03P4L-11: 2.2*1.7mm<sup>2</sup></li> <li>■ IPD50P04P4-13: 2.2*1.7mm<sup>2</sup></li> <li>■ IPD50P04P4L-11: 2.2*1.7mm<sup>2</sup></li> </ul>	<ul style="list-style-type: none"> <li>■ IPB45P03P4L-11: 2.2*1.72mm<sup>2</sup></li> <li>■ IPD50P03P4L-11: 2.2*1.72mm<sup>2</sup></li> <li>■ IPD50P04P4-13: 2.2*1.72mm<sup>2</sup></li> <li>■ IPD50P04P4L-11: 2.3*1.72mm<sup>2</sup></li> </ul>
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<b>New passivation layer</b>	<ul style="list-style-type: none"> <li>■ Without SNIT (silicon nitride) and IMIDE passivation</li> </ul>	<ul style="list-style-type: none"> <li>■ With SNIT (silicon nitride) and IMIDE passivation</li> </ul>
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<b>Additional W-deposition location</b>	<ul style="list-style-type: none"> <li>■ Infineon Technologies AG, Regensburg, Germany</li> </ul>	<ul style="list-style-type: none"> <li>■ Infineon Technologies AG, Regensburg, Germany or Infineon Technologies Austria AG, Villach, Austria</li> </ul>
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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:

- |                               |  |
|-------------------------------|--|
| ■ 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.

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PG-TO220, PG-TO252, PG-TO263 packages



Sales name	SP number	OPN	Package
IPB120P04P4-04	SP000842270	IPB120P04P404ATMA1	PG-TO263-3
IPB120P04P4L-03	SP000842284	IPB120P04P4L03ATMA1	PG-TO263-3
IPB180P04P4-03	SP000840202	IPB180P04P403ATMA1	PG-TO263-7
IPB180P04P4L-02	SP000709460	IPB180P04P4L02ATMA1	PG-TO263-7
IPB180P04P4L-02	SP001354422	IPB180P04P4L02AUMA1	PG-TO263-7
IPB45P03P4L-11	SP000396276	IPB45P03P4L11ATMA1	PG-TO263-3
IPB70P04P4-09	SP000735964	IPB70P04P409ATMA1	PG-TO263-3
IPB80P03P4-05	SP000396282	IPB80P03P405ATMA1	PG-TO263-3
IPB80P03P4L-04	SP000396284	IPB80P03P4L04ATMA1	PG-TO263-3
IPB80P03P4L-07	SP000396288	IPB80P03P4L07ATMA1	PG-TO263-3
IPB80P04P4-05	SP000652618	IPB80P04P405ATMA1	PG-TO263-3
IPB80P04P4-07	SP000842038	IPB80P04P407ATMA1	PG-TO263-3
IPB80P04P4L-04	SP000840196	IPB80P04P4L04ATMA1	PG-TO263-3
IPB80P04P4L-06	SP000842046	IPB80P04P4L06ATMA1	PG-TO263-3
IPB80P04P4L-08	SP000840208	IPB80P04P4L08ATMA1	PG-TO263-3
IPD50P03P4L-11	SP000396290	IPD50P03P4L11ATMA1	PG-TO252-3
IPD50P04P4-13	SP000840204	IPD50P04P413ATMA1	PG-TO252-3
IPD50P04P4-13	SP001649522	IPD50P04P413AUMA1	PG-TO252-3
IPD50P04P4L-11	SP000671156	IPD50P04P4L11ATMA1	PG-TO252-3
IPD50P04P4L-11	SP001644888	IPD50P04P4L11AUMA1	PG-TO252-3
IPD70P04P4-09	SP000709326	IPD70P04P409ATMA1	PG-TO252-3
IPD70P04P4L-08	SP000840206	IPD70P04P4L08ATMA1	PG-TO252-3
IPD70P04P4L-08	SP001354424	IPD70P04P4L08AUMA1	PG-TO252-3
IPD80P03P4L-07	SP000396296	IPD80P03P4L07ATMA1	PG-TO252-3
IPD85P04P4-07	SP000842066	IPD85P04P407ATMA1	PG-TO252-3
IPD85P04P4L-06	SP000842056	IPD85P04P4L06ATMA1	PG-TO252-3
IPD90P03P4-04	SP000396298	IPD90P03P404ATMA1	PG-TO252-3
IPD90P03P4L-04	SP000396300	IPD90P03P4L04ATMA1	PG-TO252-3
IPD90P04P4-05	SP000671164	IPD90P04P405ATMA1	PG-TO252-3
IPD90P04P4-05	SP001004240	IPD90P04P405AUMA1	PG-TO252-3
IPD90P04P4L-04	SP000840194	IPD90P04P4L04ATMA1	PG-TO252-3
IPP120P04P4L-03	SP000842300	IPP120P04P4L03AKSA1	PG-TO220-3
IPP80P03P4L-04	SP000396390	IPP80P03P4L04AKSA1	PG-TO220-3