

Product/process change notification

PCN N° 2021-037-A

Dear customer,

Please find attached our Infineon Technologies AG PCN:

Capacity extension for dedicated OptiMOS™5 80V & 100V products by introduction of 300mm wafer diameter at Infineon Technologies Austria AG, Austria

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 **2022-01-13**
- 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 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
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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 1_cip21037_a

- **Detailed change information**

Subject Introduction of 300mm wafer diameter at Infineon Technologies Austria AG

Reason Extension for manufacturing capability to cover increasing customer demand and support short term upside demand in a more efficient way

Description	Old		New	
Wafer production & Wafer Test Site	<ul style="list-style-type: none"> ▪ Infineon Technologies Austria AG, Villach, Austria (200mm) <p><i>and</i></p> <ul style="list-style-type: none"> ▪ Infineon Technologies Dresden GmbH & Co. KG, Germany (300mm) 		<ul style="list-style-type: none"> ▪ Infineon Technologies Austria AG, Villach, Austria (200mm & 300mm) <p><i>and</i></p> <ul style="list-style-type: none"> ▪ Infineon Technologies Dresden GmbH & Co. KG, Germany (300mm) 	
Wafer Lot Number	<ul style="list-style-type: none"> ▪ VExxxxxx (Villach,200mm) <p><i>and</i></p> <ul style="list-style-type: none"> ▪ ZFxxxxxx (Dresden,300mm) 		<ul style="list-style-type: none"> ▪ VExxxxxx (Villach,200mm) ▪ VFxxxxxx (Villach,300mm) <p><i>and</i></p> <ul style="list-style-type: none"> ▪ ZFxxxxxx (Dresden,300mm) 	

- **Product identification** External traceability assured via wafer lot number and country of diffusion on product label

- **Impact of change**
 - **NO** change on electrical, thermal parameters as proven via product qualification and characterization.
 - **NO** change of existing electrical datasheet parameters.
 - **NO** change in quality and reliability. Processes are optimized to meet product performance according to already applied Infineon specification.

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▪ Attachments

1_cip21037_a	affected product list
2_cip21037_a	qualification report

▪ Time schedule

■ Final qualification report	available
■ First samples available	on request
■ Intended start of delivery	2022-03-01 (earlier depending on customer approval)

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

Qualification Test Report



PCN 2021-037-A

Date: 2021-11-15

Title: Capacity extension for dedicated OptiMOS™5 80V & 100V products by introduction of 300mm wafer diameter at Infineon Technologies Austria AG, Austria

Reason for choosing the following test vehicles:

- BSZ146N10LS5 medium chip in TSDSON-8 package
- BSC034N10LS5 biggest chip in TDSO-8 package
- IPT015N10N5 biggest chip in HSO-8 package
- IPB020N10N5 biggest chip in TO263-3 package
- BSC070N10NS5 medium chip in TDSO-8 package
- BSC040N10NS5 big chip in TDSO-8 package
- IPA083N10N5 medium chip in TO220-3 package
- IPA083N10NM5S medium chip in TO220-3 package
- IPD050N10N5 big chip in TO252-3 package

Scope of qualification:

SFET5 100V products qualified in different packages

Assessment of Q-Results:

PASS

Stress test	Abbreviation	Test conditions	Readout	BSZ146N10LS5	BSZ146N10LS5	BSC034N10LS5	IPT015N10N5	IPB020N10N5	BSC070N10NS5	BSC040N10NS5	IPA083N10N5	IPA083N10NM5S	IPD050N10N5
				fails / stressed	fails / stressed	fails / stressed	fails / stressed	fails / stressed	fails / stressed	fails / stressed	fails / stressed	fails / stressed	fails / stressed
MSL Preconditioning JESD22-A113	PC	MSL 1	0h	0/484	0 / 407	0/484	0 / 330	0 / 462	0/484	0 / 462	-	-	0 / 407
Temperature Cycling JESD22-A104	TC	with preconditioning	1000 x	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77
Unbiased Temperature/Humidity JESD22-A118	UHAST	with preconditioning Ta = 130 °C, RH = 85%	96 h	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77
High Humidity High Temp. Reverse Bias JESD22-A101	H3TRB	with preconditioning T = 85 °C RH = 85% Vds = 80%Vdsmax	1000 h	0 / 77	0 / 77	0 / 77	refer to IPB020N10N5	0 / 77	0 / 77	0 / 77	refer to IPB020N10N5	refer to IPB020N10N5	refer to IPB020N10N5
High Temperature Reverse Bias JESD22-A108	HTRB	with preconditioning Tj = Tj max Vds = 100% Vdsmax	1000 h	0 / 77	0 / 77	0 / 77	refer to IPB020N10N5	0 / 77	0 / 77	0 / 77	refer to IPB020N10N5	refer to IPB020N10N5	0 / 77
High Temperature Gate stress JESD22-A108	HTGS	with preconditioning Ta = Tj max Vgs = ±20V for NL Vgs = ±16V for LL	1000 h	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77
Intermittent Operational Life Test MIL-STD 750/Method: 1037	IOL	with preconditioning Delta T = 100 K n = 15000 cyc	15000x	0 / 77	refer to BSZ146N10LS5	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77

Title: Capacity extension for dedicated OptiMOS™ 5 80V & 100V products by introduction of 300mm wafer diameter at Infineon Technologies Austria AG, Austria

Reason for choosing the following test vehicles:

IPB015N08N5 biggest chip in TO263-7 package
 IPP023N08N5 biggest chip in TO220-3 package
 BSC021N08NS5 medium chip in TDSO-8 package
 BSC117N08NS5 smallest chip in TDSO-8 package
 BSC040N08NS5 medium chip in TDSO-8 package
 BSZ070N08LS5 biggest chip in TSDSO-8 package
 IPA040N08NM5S medium chip in TO220-3 package
 BSC030N08NS5 medium chip in TDSO-8 package

Scope of qualification:

SFET5 80V products qualified in different packages

Assessment of Q-Results:

PASS

Stress test	Abbreviation	Test conditions	Readout	IPB015N08N5	IPP023N08N5	BSC021N08NS5	BSC117N08NS5	BSC040N08NS5	BSZ070N08LS5	IPA040N08NM5S	BSC030N08NS5
				fails / stressed	fails / stressed	fails / stressed	fails / stressed	fails / stressed	fails / stressed	fails / stressed	fails / stressed
MSL Preconditioning JESD22-A113	PC	MSL 1	0h	-	-	0 / 462	0 / 462	0 / 462	0 / 462	-	0 / 462
Temperature Cycling JESD22-A104	TC	with preconditioning	1000 x	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77
Unbiased Temperature/Humidity JESD22-A118	UHASt	with preconditioning Ta = 130 °C, RH = 85%	96 h	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77
High Humidity High Temp. Reverse Bias JESD22-A101	H3TRB	with preconditioning T = 85 °C RH = 85% Vds = 80%Vdsmax	1000 h	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77
High Temperature Reverse Bias JESD22-A108	HTRB	with preconditioning Tj = Tj max Vds = 100% Vdsmax	1000 h	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77
High Temperature Gate stress JESD22-A108	HTGS	with preconditioning Ta = Tj max Vgs = ±20V for NL Vgs = ±16V for LL	1000 h	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77
Intermitted Operational Life Test MIL-STD 750/Meth.1037	IOL	with preconditioning Delta T = 100 K n = 15000 cyc	15000x	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77	0 / 77

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at Infineon Technologies Austria AG, Austria

Sales name	SP number	OPN	Package
BSC019N08NS5	SP005560379	BSC019N08NS5ATMA1	PG-TSON-8
BSC021N08NS5	SP001793410	BSC021N08NS5ATMA1	PG-TSON-8
BSC025N08LS5	SP001385618	BSC025N08LS5ATMA1	PG-TDSON-8
BSC026N08NS5	SP001154276	BSC026N08NS5ATMA1	PG-TDSON-8
BSC027N10NS5	SP001795088	BSC027N10NS5ATMA1	PG-TSON-8
BSC030N08NS5	SP001077098	BSC030N08NS5ATMA1	PG-TDSON-8
BSC030N08NS5	SP001285640	BSC030N08NS5ATMA2	PG-TDSON-8
BSC034N10LS5	SP001385620	BSC034N10LS5ATMA1	PG-TDSON-8
BSC035N10NS5	SP001229628	BSC035N10NS5ATMA1	PG-TDSON-8
BSC037N08NS5	SP001294988	BSC037N08NS5ATMA1	PG-TDSON-8
BSC037N08NS5T	SP004475134	BSC037N08NS5TATMA1	PG-TDSON-8
BSC040N08NS5	SP001132452	BSC040N08NS5ATMA1	PG-TDSON-8
BSC040N10NS5	SP001295030	BSC040N10NS5ATMA1	PG-TDSON-8
BSC040N10NS5 E8203	SP001315874	BSC040N10NS5E8203ATMA1	PG-TDSON-8
BSC050N10NS5	SP001861032	BSC050N10NS5ATMA1	PG-TDSON-8
BSC052N08NS5	SP001232632	BSC052N08NS5ATMA1	PG-TDSON-8
BSC0604LS	SP001648312	BSC0604LSATMA1	PG-TDSON-8
BSC061N08NS5	SP001232634	BSC061N08NS5ATMA1	PG-TDSON-8
BSC070N10LS5	SP001861044	BSC070N10LS5ATMA1	PG-TDSON-8
BSC070N10NS5	SP001241596	BSC070N10NS5ATMA1	PG-TDSON-8
BSC072N08NS5	SP001232628	BSC072N08NS5ATMA1	PG-TDSON-8
BSC0802LS	SP001614074	BSC0802LSATMA1	PG-TDSON-8
BSC0803LS	SP001614084	BSC0803LSATMA1	PG-TDSON-8
BSC0804LS	SP001861040	BSC0804LSATMA1	PG-TDSON-8
BSC0805LS	SP001861048	BSC0805LSATMA1	PG-TDSON-8
BSC096N10LS5	SP001861036	BSC096N10LS5ATMA1	PG-TDSON-8
BSC098N10NS5	SP001241598	BSC098N10NS5ATMA1	PG-TDSON-8
BSC117N08NS5	SP001295028	BSC117N08NS5ATMA1	PG-TDSON-8
BSC146N10LS5	SP001385464	BSC146N10LS5ATMA1	PG-TDSON-8
BSZ0602LS	SP001589450	BSZ0602LSATMA1	PG-TSDSON-8
BSZ070N08LS5	SP001352992	BSZ070N08LS5ATMA1	PG-TSDSON-8
BSZ075N08NS5	SP001132454	BSZ075N08NS5ATMA1	PG-TSDSON-8
BSZ0803LS	SP001614108	BSZ0803LSATMA1	PG-TSDSON-8
BSZ0804LS	SP001648318	BSZ0804LSATMA1	PG-TSDSON-8
BSZ084N08NS5	SP001227056	BSZ084N08NS5ATMA1	PG-TSDSON-8
BSZ096N10LS5	SP001352994	BSZ096N10LS5ATMA1	PG-TSDSON-8
BSZ097N10NS5	SP001132550	BSZ097N10NS5ATMA1	PG-TSDSON-8
BSZ110N08NS5	SP001154280	BSZ110N08NS5ATMA1	PG-TSDSON-8
BSZ146N10LS5	SP001385466	BSZ146N10LS5ATMA1	PG-TSDSON-8
ICNAA1000	SP005412366	ICNAA1000ATMA1	PG-HSOF-8

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Sales name	SP number	OPN	Package
ICNAA1001	SP005557559	ICNAA1001ATMA1	PG-TDSON-8
IPA040N08NM5S	SP005351629	IPA040N08NM5SXKSA1	PG-TO220-3
IPA050N10NM5S	SP001962884	IPA050N10NM5SXKSA1	PG-TO220-3
IPA052N08NM5S	SP001953076	IPA052N08NM5SXKSA1	PG-TO220-3
IPA083N10N5	SP001226038	IPA083N10N5XKSA1	PG-TO220-3
IPA083N10N5 E8191	SP001712278	IPA083N10N5E8191XKSA1	PG-TO220-3
IPA083N10NM5S	SP001953062	IPA083N10NM5SXKSA1	PG-TO220-3
IPB015N08N5	SP001226034	IPB015N08N5ATMA1	PG-TO263-7
IPB017N08N5	SP001132472	IPB017N08N5ATMA1	PG-TO263-3
IPB017N10N5	SP001227028	IPB017N10N5ATMA1	PG-TO263-7
IPB017N10N5 E8187	SP004177814	IPB017N10N5E8187ATMA1	PG-TO263-7
IPB019N08N5	SP001691928	IPB019N08N5ATMA1	PG-TO263-7
IPB019N08N5 E8187	SP001956402	IPB019N08N5E8187ATMA1	PG-TO263-7
IPB020N08N5	SP001227042	IPB020N08N5ATMA1	PG-TO263-3
IPB020N10N5	SP001132558	IPB020N10N5ATMA1	PG-TO263-3
IPB024N08N5	SP001227044	IPB024N08N5ATMA1	PG-TO263-3
IPB024N10N5	SP001482034	IPB024N10N5ATMA1	PG-TO263-7
IPB024N10N5 E8197	SP001595196	IPB024N10N5E8197ATMA1	PG-TO263-7
IPB027N10N5	SP001227034	IPB027N10N5ATMA1	PG-TO263-3
IPB027N10N5 E8187	SP001586342	IPB027N10N5E8187ATMA1	PG-TO263-3
IPB031N08N5	SP001227048	IPB031N08N5ATMA1	PG-TO263-3
IPB032N10N5	SP001607808	IPB032N10N5ATMA1	PG-TO263-7
IPB049N08N5	SP001227052	IPB049N08N5ATMA1	PG-TO263-3
IPB0601N5 E8187	SP005632054	IPB0601N5E8187ATMA1	PG-TO263-7
IPP020N08N5	SP001132480	IPP020N08N5AKSA1	PG-TO220-3
IPP020N08N5	SP005573708	IPP020N08N5XKSA1	PG-TO220-3
IPP023N08N5	SP001132482	IPP023N08N5AKSA1	PG-TO220-3
IPP023N08N5	SP005573709	IPP023N08N5XKSA1	PG-TO220-3
IPP023N10N5	SP001120504	IPP023N10N5AKSA1	PG-TO220-3
IPP023N10N5	SP005573717	IPP023N10N5XKSA1	PG-TO220-3
IPP027N08N5	SP001132484	IPP027N08N5AKSA1	PG-TO220-3
IPP027N08N5	SP005573711	IPP027N08N5XKSA1	PG-TO220-3
IPP030N10N5	SP001227032	IPP030N10N5AKSA1	PG-TO220-3
IPP030N10N5	SP005597562	IPP030N10N5XKSA1	PG-TO220-3
IPP034N08N5	SP001227046	IPP034N08N5AKSA1	PG-TO220-3
IPP034N08N5	SP005573713	IPP034N08N5XKSA1	PG-TO220-3
IPP039N10N5	SP001602186	IPP039N10N5AKSA1	PG-TO220-3
IPP039N10N5	SP005573721	IPP039N10N5XKSA1	PG-TO220-3
IPP052N08N5	SP001227050	IPP052N08N5AKSA1	PG-TO220-3
IPP052N08N5	SP005573715	IPP052N08N5XKSA1	PG-TO220-3

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Sales name	SP number	OPN	Package
IPP083N10N5	SP001226036	IPP083N10N5AKSA1	PG-TO220-3
IPP083N10N5	SP005573724	IPP083N10N5XKSA1	PG-TO220-3
IPT010N08NM5	SP005560711	IPT010N08NM5ATMA1	PG-HSOF-8
IPT012N08N5	SP001227054	IPT012N08N5ATMA1	PG-HSOF-8
IPT015N10N5	SP001227040	IPT015N10N5ATMA1	PG-HSOF-8
IPT019N08N5	SP003883402	IPT019N08N5ATMA1	PG-HSOF-8
IPT020N10N5	SP003883410	IPT020N10N5ATMA1	PG-HSOF-8
IPT026N10N5	SP003883420	IPT026N10N5ATMA1	PG-HSOF-8
IPT029N08N5	SP001581494	IPT029N08N5ATMA1	PG-HSOF-8

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Customer approval form

Capacity extension for dedicated OptiMOS™5 80V & 100V products by introduction of 300mm wafer diameter at Infineon Technologies Austria AG, Austria

Please list product(s) affected in your application(s):

Please check the appropriate box below:

We agree with this proposed change and its schedule.

We have objections:

We need more information:

We need samples:

Sender

Company:

Name:

Address/location:

E-Mail:

Telephone:

Signature

Date:

Product/process change notification

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Please return to your sales partner:

Company: Infineon Technologies AG

Name:

Address/Location :

E-mail:

Telephone: