



Initial Product/Process Change Notification

Document #:IPCN24693X

Issue Date:29 Jun 2022

Title of Change:	Qualification of onsemi Bucheon,Korea facility as an additional wafer fab location for PT3 Technology
Proposed First Ship date:	30 Jan 2023 or earlier if approved by customer
Contact Information:	Contact your local onsemi Sales Office or NurulAqilah.AbuHurairah@onsemi.com
PCN Samples Contact:	Contact your local onsemi Sales Office. Sample requests are to be submitted no later than 30 days from the date of first notification, Initial PCN or Final PCN, for this change. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.
Type of Notification:	This is an Initial Product/Process Change Notification (IPCN) sent to customers. An IPCN is an advance notification about an upcoming change and contains general information regarding the change details and devices affected. It also contains the preliminary reliability qualification plan. The completed qualification and characterization data will be included in the Final Product/Process Change Notification (FPCN). This IPCN notification will be followed by a Final Product/Process Change Notification (FPCN) at least 90 days prior to implementation of the change. In case of questions, contact < PCN.Support@onsemi.com >
Marking of Parts/ Traceability of Change:	Customer may receive the parts from onsemi Bucheon,Korea from month of Dec 2022 onwards once FPCN expire or customer approved
Change Category:	Wafer Fab Change
Change Sub-Category(s):	Manufacturing Site Addition

Sites Affected:

onsemi Sites	External Foundry/Subcon Sites
onsemi Bucheon, Korea	None

Description and Purpose:

This is an IPCN to notify customers the qualification of onsemi Bucheon,Korea facility as an additional wafer fab location for PT3 Technology.

	Before Change Description	After Change Description
Fab Site	Tower Jazz Fab, Israel	onsemi Bucheon, Korea Tower Jazz Fab, Israel

Qualification Plan:

QV DEVICE NAME: FDS6699S

RMS: TBD

PACKAGE: SO-8

Test	Specification	Condition	Interval
HTRB	JESD22-A108	Tj=150°C, 80% max rated V	1008 hrs
HTGB	JESD22-A108	Tj=150°C, 100% max rated Vgss	1008 hrs
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C	-



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QV DEVICE NAME: FDMS9600S

RMS: TBD

PACKAGE: Power56

Test	Specification	Condition	Interval
HTRB	JESD22-A108	Tj=150°C, 80% max rated V	1008 hrs
HTGB	JESD22-A108	Tj=150°C, 100% max rated Vgss	1008 hrs
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C	-

QV DEVICE NAME: FDD4141

RMS: TBD

PACKAGE: DPAK

Test	Specification	Condition	Interval
HTRB	JESD22-A108	Tj=150°C, 80% max rated V	1008 hrs
HTGB	JESD22-A108	Tj=150°C, 100% max rated Vgss	1008 hrs
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C	-

QV DEVICE NAME: FDS4141

RMS: TBD

PACKAGE: SO-8

Test	Specification	Condition	Interval
HTRB	JESD22-A108	Tj=150°C, 80% max rated V	1008 hrs
HTGB	JESD22-A108	Tj=150°C, 100% max rated Vgss	1008 hrs
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C	-

QV DEVICE NAME: FDS6910

RMS: TBD

PACKAGE: SO-8

Test	Specification	Condition	Interval
HTRB	JESD22-A108	Tj=150°C, 80% max rated V	1008 hrs
HTGB	JESD22-A108	Tj=150°C, 100% max rated Vgss	1008 hrs
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C	-



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Document #: IPCN24693X

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QV DEVICE NAME: FDN361BN

RMS: TBD

PACKAGE: SOT-23-3 (SSOT3)

Test	Specification	Condition	Interval
HTRB	JESD22-A108	Tj=150°C, 80% max rated V	1008 hrs
HTGB	JESD22-A108	Tj=150°C, 100% max rated Vgss	1008 hrs
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C	-

Estimated date for qualification completion: 7 October 2022

List of Affected Parts:

Note: Only the standard (off the shelf) part numbers are listed in the parts list. Any custom parts affected by this PCN are shown in the customer specific PCN addendum in the PCN email notification, or on the [PCN Customized Portal](#).

Part Number	Qualification Vehicle
FDS6699S	FDS6699S
FDMS9600S	FDMS9600S
FDS6986AS	FDS6699S
NDS351AN	FDS6910, FDN361BN
FDN361BN	FDN361BN
FDS6990AS	FDS6699S
FDS4897AC	FDD4141, FDS4141
FDS6690AS	FDS6699S
FDMS9620S	FDS6699S, FDMS9600S
FDS6911	FDS6910
FDS6910	FDS6910
PCF6294W	FDS6699S
FDS6982AS	FDS6699S
FDS6680AS	FDS6699S
FDS4141	FDS4141
FDD4141	FDD4141

Appendix A: Changed Products

PCN#: IPCN24693X
Issue Date: Jun 28, 2022

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
FDS6699S		FDS6699S	NA	
FDS6986AS		FDS6699S	NA	
NDS351AN		FDS6910,FDN361BN	NA	
FDN361BN		FDN361BN	NA	
FDS6990AS		FDS6699S	NA	
FDS4897AC	FDS4897ACTR-ND	FDD4141,FDS4141	NA	
FDS6690AS		FDS6699S	NA	
FDMS9620S		FDS6699S, FDMS9600S	NA	
FDS6911		FDS6910	NA	
FDS6910		FDS6910	NA	
FDS6982AS		FDS6699S	NA	
FDS6680AS		FDS6699S	NA	
FDS4141		FDS4141	NA	
FDD4141		FDD4141	NA	
FDMS9600S		FDMS9600S	NA	