



Final Product/Process Change Notification

Document #:FPCN21292XQ

Issue Date:03 Mar 2023

Title of Change:	Qualification of VHVIC (Very High Voltage IC) Technology at onsemi Aizu, Japan
Proposed First Ship date:	10 Jun 2023 or earlier if approved by customer
Contact Information:	Contact your local onsemi Sales Office or Scott.Brow@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.
Additional Reliability Data:	Contact your local onsemi Sales Office or Jacob.Saliba@onsemi.com
Type of Notification:	This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 90 days prior to implementation of the change. onsemi will consider this change accepted, unless an inquiry is made in writing within 30 days of delivery of this notice. To do so, contact PCN.Support@onsemi.com
Marking of Parts/ Traceability of Change:	Product that is product out of onsemi Aizu, Japan can be identified on the label by referring to the "Diffused In" location. If produced in Aizu, Japan, it will show JP, if produced in Gresham, OR, it will show US.
Change Category:	Wafer Fab Change
Change Sub-Category(s):	Manufacturing Site Addition

Sites Affected:

onsemi Sites	External Foundry/Subcon Sites
onsemi Aizu, Japan	None

Description and Purpose:

onsemi would like to notify its customers of the qualification of our Very High Voltage IC (VHVIC) Technology at our onsemi Aizu, Japan FAB. This qualification enables expanded capacity for this technology. All products listed in this FPCN may be dual sourced from either the current onsemi wafer FAB in Gresham, OR US or onsemi Aizu, Japan. This is the latest PCN associated with this change. This technology was previously qualified into Aizu and has been running at this FAB for > 5 years for other products in this technology. Reference FPCN21292X-FPCN21292XM for previous notifications on this equivalent change.

	Before Change Description	After Change Description	
FAB	onsemi Gresham, USA	onsemi Aizu, Japan	onsemi Gresham, USA

There are no product material changes as a result of this change.

There is no product marking change as a result of this change.



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Reliability Data Summary:

QV DEVICE NAME: NCP1236BD65R2G

RMS: P31397, O30920

PACKAGE: SOIC 8 (Less Pin 7)

Test	Specification	Condition	Interval	Results
HTOL	JESD22-A108	Ta= 125°C, 500V	1000 hrs	0/231
HTSL	JESD22-A103	Ta= 150°C	1000 hrs	0/231
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C		0/693
PC-TC	JESD22-A104	Ta= -65°C to +150°C	500 cyc	0/231
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/231
PC-uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231

QV DEVICE NAME: NCP1380BDR2G

RMS: O32111

PACKAGE: SOIC-8

Test	Specification	Condition	Interval	Results
HTOL	JESD22-A108	Ta= 125°C, 30V	1000 hrs	0/77

QV DEVICE NAME: NCP1399AADR2G

RMS: P31421

PACKAGE: SOIC-16

Test	Specification	Condition	Interval	Results
HTOL	JESD22-A108	Ta= 125°C, 600V	1000 hrs	0/77



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QV DEVICE NAME: NCP1076P065G

RMS P39367, O39368

PACKAGE: PDIP-8

Test	Specification	Condition	Interval	Results
HTOL	JESD22-A108	Ta= 125°C, 600V	1000 hrs	0/240
HTSL	JESD22-A103	Ta=150°C	1000 hrs	0/240
TC	JESD22-A104	Ta=65°C to +150°C	500 cyc	0/240
HAST	JESD22-A110	130°C,85% RH, 18.8psig, bias	96 hrs	0/240
uHAST	JESD22-A118	130°C,85% RH, 18.8psig, unbiased	96 hrs	0/240

Electrical Characteristics Summary:

Electrical characteristics are not impacted.

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
NCL30030B3DR2G	NCP1399AADR2G
NCL30060BDR2G	NCP1236BDR2G
NCP1606BDR2G	NCP1236BDR2G, NCP1380ADR2G
NCP1606ADR2G	NCP1236BDR2G, NCP1380ADR2G
NCP1339HDR2G	NCP1236BDR2G, NCP1399AADR2G
NCP1632ADR2G	NCP1380ADR2G
NCP1632DR2G	NCP1380ADR2G
NCL30060B2DR2G	NCP1236BDR2G
NCP1562ADBDR2G	NCP1236BDR2G
NCP1910B65DWR2G	NCP1399AADR2G