



Final Product/Process Change Notification

Document #:FPCN21292XP

Issue Date:02 Feb 2023

Title of Change:	Qualification of VHVIC (Very High Voltage IC) Technology at onsemi Aizu, Japan
Proposed First Ship date:	09 May 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 Tomas.Vajter@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 produced out of 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.



Final Product/Process Change Notification

Document #:FPCN21292XP

Issue Date:02 Feb 2023

Reliability Data Summary:

QV DEVICE NAME: NCP1396ADR2G

RMS: P31418, O36903, O37701

PACKAGE SOIC-16

Test	Specification	Condition	Interval	Results
HTOL	JESD22-A108	Ta= 125°C, 600V	1000 hrs	0/231
HTSL	JESD22-A103	Ta= 150°C	1000 hrs	0/231
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C		0/231
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: 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

Electrical Characteristics Summary:

Electrical characteristics are not impacted.



Final Product/Process Change Notification

Document #:FPCN21292XP

Issue Date:02 Feb 2023

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
NCP1034DR2G	NCP1396ADR2G
NCL30001DR2G	NCP1236BD65R2G, NCP1380BDR2G
NCP1562BDR2G	NCP1236BD65R2G
NCP1562ADR2G	NCP1236BD65R2G
NCP5104DR2G	NCP1396ADR2G
NCP1392DDR2G	NCP1396ADR2G