



Final Product/Process Change Notification

Document #:FPCN23660XJ

Issue Date:01 Aug 2024

Title of Change:	Wafer Fab Site Addition of onsemi Aizu, Japan as an Alternate Fab Site for ONC25-BCD.	
Proposed First Ship date:	08 Nov 2024 or earlier if approved by customer	
Contact Information:	Contact your local onsemi Sales Office or Jonathan.Bass@onsemi.com	
PCN Samples Contact:	<p>Contact your local onsemi Sales Office.</p> <p>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.</p> <p>Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.</p>	
Additional Reliability Data:	Contact your local onsemi Sales Office or Jacob.Saliba@onsemi.com	
Type of Notification:	<p>This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 90 days prior to implementation of the change.</p> <p>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</p>	
Marking of Parts/ Traceability of Change:	No change to marking / Changed material may be identified by date code	
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:		
<p>onsemi would like to inform its customers of additional wafer fabrication facility for ONBCD25 technology in onsemi Aizu, Japan for the devices listed in this FPCN.</p> <p>All products listed here will be dual sourced from its current wafer fab facility in onsemi wafer fab in Gresham, US and Aizu, Japan.</p> <p>There is no change to the orderable part number.</p> <p>There is no product marking change as a result of this change.</p>		
	Before Change Description	After Change Description
Wafer Fab Site	Gresham, US	Gresham, US and AIZU, Japan



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Reliability Data Summary:

QV DEVICE NAME: NCP4306DADZZDASNT1G

RMS: S77062

PACKAGE: TSOP6

Test	Specification	Condition	Interval	Results (fail/pass)
HTOL	JESD22-A108	Ta=125°C, bias at Vcc=1.2x Nominal (not to exceed Max rated)	1008hrs	0/240
HTSL	JESD22-A103	Ta = 150°C	1008hrs	0/240
TC+PC	JESD22-A104	Temp = -65°C to 150°C	500 cycles	0/240
UHAST+PC	JESD22-A118	Temp = 130°C, RH = 85%, ~18.8 psig	96hrs	0/240
SAT	As outlined in MSB17722C	12MSB17722C		0/30

QV DEVICE NAME: NCP12400CBAAB0DR2G

RMS: O77064

PACKAGE: SOIC-7

Test	Specification	Condition	Interval	Results (fail/pass)
HTOL	JESD22-A108	TA=125C, bias at 1.2X Nominal (not to exceed Max rated)	1008 hrs	0/240
HVTHB		TA= 85C / 60%RH, bias=800V	168 hrs	0/240
HTBB	M750-1048	TA=125C, bias=800V	1008 hrs	0/240
HTSL	JESD22-A103	Ta= 150	1008 hrs	0/240
PC	J-STD-020 JESD-A113	IR reflow at 245C or 260C (pkg dependant)		0/240
TC+PC	JESD22-A104	Temp = -55°C to +150°C; for 1000 cycles (or equivalent)	500 cyc	0/240
HAST+PC	JESD22-A110	Temp = 130C, 85% RH, ~ 18.8 psig, bias = 100V max	96 hrs	0/240
UHAST+PC	JESD22-A118	Temp = 130C, RH=85%, ~ 18.8 psig	96 hrs	0/240
SAT	as outlined in MSB17722C	12MSB17722C		0/15
ESD	12MSB17722C	HBM, CDM, IEC		pass
LU	JESD78	-LU, +LU		pass

QV DEVICE NAME: SCY99261AADZZZAMN1TBG

RMS: S90897

PACKAGE: DFN8

Test	Specification	Condition	Interval	Results (fail/pass)
HTOL	JESD22-A108	TA=125C, bias at 1.2X Nominal (not to exceed Max rated)	1008 hrs	0/84
HTBB	M750-1048	TA=125C, bias=800V	1008 hrs	0/84
HTSL	JESD22-A103	Ta= 150	1008 hrs	0/84
TC+PC	JESD22-A104	Temp = -65°C to +150°C; for 500 cycles (or equivalent)	500 cyc	0/94
HAST+PC	JESD22-A110	Temp = 130C, 85% RH, ~ 18.8 psig, bias = 100V max	96 hrs	0/240
UHAST+PC	JESD22-A118	Temp = 130C, RH=85%, ~ 18.8 psig	96 hrs	0/240
SAT	as outlined in MSB17722C	12MSB17722C		0/22
ESD	12MSB17722C	HBM, CDM, IEC		pass
LU	JESD78	-LU, +LU		pass



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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
NCP4306AAHZZADR2G	NCP12400CBAAB0DR2G
NCP4306AADZZADR2G	NCP12400CBAAB0DR2G
NCP4306AAAZZADR2G	NCP12400CBAAB0DR2G
NCP4306AADZZAMNTWG	SCY99261ABAZZAMN1TBG
NCP4306AAAZZAMNTWG	SCY99261ABAZZAMN1TBG
NCP4306AADZZAMN1TBG	SCY99261ABAZZAMN1TBG
NCP4306AAAZZAMN1TBG	SCY99261ABAZZAMN1TBG