



Final Product/Process Change Notification

Document #:FPCN23660XA

Issue Date:24 May 2022

Title of Change:	Additional wafer fabrication facility for ONBCD25 technology in onsemi Aizu located in Aizu, Japan.	
Proposed First Ship date:	31 Aug 2022 or earlier if approved by customer	
Contact Information:	Contact your local onsemi Sales Office or Jiri.Konarik@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:	Labels on boxes and reels will show "Diffused In: JP" for product produced out of Aizu, Japan. There is no changes to the marking of the actual units. Material from (2) different FABs cannot be combined into one reel.	
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 inform its customers of qualification of an additional wafer fabrication facility for ONBCD25 technology at onsemi Aizu, Japan for the devices listed in this FPCN. All products listed here will be dual sourced from onsemi Gresham and onsemi Aizu.		
There is no change to the orderable part number.		
There is no product marking change as a result of this change.		
	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: NCP1251BSN65T1G

PACKAGE: TSOP-6

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
HTSL	JESD22-A103	Ta= 150	1008 hrs	0/240
TC+PC	JESD22-A104	Temp = -55°C to +150°C	500 cyc	0/240
HAST+PC	JESD22-A110	Temp = 130C, 85% RH, ~ 18.8 psig bias = 100% of rated V or 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

QV DEVICE NAME: NCP12400CBAAB0DR2G

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

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
NCP1611ADR2G	NCP12400CBAAB0DR2G
NCP1239AD100R2G	NCP1251BSN65T1G
NCP1239AD65R2G	NCP1251BSN65T1G



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NCP1239BD100R2G	NCP1251BSN65T1G
NCS20072DTBR2G	NCP1251BSN65T1G
TLV272DMR2G	NCP1251BSN65T1G
TLV272DR2G	NCP1251BSN65T1G
NCS20072DMR2G	NCP1251BSN65T1G
NCS20072DR2G	NCP1251BSN65T1G
NCL30488A3DR2G	NCP12400CBAAB0DR2G
NCP1239RD65R2G	NCP1251BSN65T1G
NCP1239ND65R2G	NCP1251BSN65T1G
NCP1239MD65R2G	NCP1251BSN65T1G
NCP1239KD65R2G	NCP1251BSN65T1G
NCP1239JD65R2G	NCP1251BSN65T1G
NCP1239ID65R2G	NCP1251BSN65T1G
NCP1239HD65R2G	NCP1251BSN65T1G
NCP1239GD100R2G	NCP1251BSN65T1G
NCP1239FD65R2G	NCP1251BSN65T1G
NCP1239ED65R2G	NCP1251BSN65T1G
NCP1239ED100R2G	NCP1251BSN65T1G
NCP1239DD65R2G	NCP1251BSN65T1G
NCP1239DD100R2G	NCP1251BSN65T1G
NCP1239CD65R2G	NCP1251BSN65T1G
NCP1239BD65R2G	NCP1251BSN65T1G