



Final Product/Process Change Notification

Document #:FPCN23889Z1

Issue Date:08 Nov 2021

Title of Change:	Update to FPCN23889Z - to change Proposed First Ship Date & Current Material Last Order/Delivery Dates. Change from 6inch to 8inch wafers for HD+B technology at Roznov wafer fab	
Proposed Changed Material First Ship Date:	01 Apr 2023 or earlier if approved by customer	
Current Material Last Order Date:	31 Dec 2022 <i>Orders received after the Current Material Last Order Date expiration are to be considered as orders for new changed material as described in this PCN. Orders for current (unchanged) material after this date will be per mutual agreement and current material inventory availability.</i>	
Current Material Last Delivery Date:	31 Mar 2023 <i>The Current Material Last Delivery Date may be subject to change based on build and depletion of the current (unchanged) material inventory</i>	
Product Category:	Active components – Integrated circuits	
Contact information:	Contact your local onsemi Sales Office or Aaron.Zierenberg@onsemi.com	
PCN Samples Contact:	Contact your local onsemi Sales Office to place sample order or < PCN.samples@onsemi.com >. Sample requests are to be submitted no later than 45 days after publication of this change notification. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.	
Sample Availability Date:	05 Mar 2021	
PPAP Availability Date:	30 Apr 2021	
Additional Reliability Data:	Contact your local onsemi Sales Office or Youngchul.Lee@onsemi.com	
Type of Notification:	This is a Final Product/Process Change Notification (FPCN) sent to customers. The change will be implemented at 'Proposed Change Material First Ship Date' in compliance to J-STD-46 or ZVEI, or earlier upon customer approval, or per our signed agreements. onsemi will consider this proposed change and it's conditions acceptable, unless an inquiry is made in writing within 45 days of delivery of this notice. To do so, contact PCN.Support@onsemi.com .	
Change Category		
Category	Type of Change	
Process - Wafer Production	New wafer diameter	
Process - Assembly	Change of product marking	
Description and Purpose:		
This update notification is to change Proposed Changed Material First Ship Date, Current Material Last Order Date, and Current Material Last Delivery Date.		
Move from 6inch to 8inch wafer size. Purpose to improve manufacturing capacity.		
	From	To
Product marking change	8402A	8402C
	8405A	8405C
	8406A	8406C
	8440A	8440C
Please note that new part numbers will be assembled using Cu wire as communicated in FPCN22925ZA.		



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Reason / Motivation for Change:	Capacity improvement
Anticipated impact on fit, form, function, reliability, product safety or manufacturability:	The device has been qualified and validated based on the same Product Specification. The device has successfully passed the qualification tests. Potential impacts can be identified, but due to testing performed by onsemi in relation to the PCN, associated risks are verified and excluded. No anticipated impacts.

Sites Affected:	
onsemi Sites	External Foundry/Subcon Sites
onsemi Roznov, Czech Republic	None
onsemi Seremban, Malaysia	

Marking of Parts/ Traceability of Change:	New OPN's with updated marking.
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Reliability Data Summary:

QV DEVICE NAME : NCV8406BDTRKG
RMS: OSV (RRF#61238, 69600) and SBN (RRF#61239)
PACKAGE: 1186 (DPAK3)

Test	Specification	Condition	Interval	Results
HTRB	MILSTD750-1, method M1038A	Tj=150C, Bias=54V	1008 hrs	0/300
ELFR	JESD22-A108	Ta=150C, Bias=10V	24 hrs	0/2400
TC	JESD22-A104	Ta= - __55__ °C to + __150__ °C	1000 cyc	0/240
HAST	JESD22-A110	Ta=130C, RH=85%, ~18.8 psig, Bias=54V	96 hrs	0/252
uHAST	JESD22-A118	Ta=130C, RH=85%, ~18.8 psig	96 hrs	0/240
PC	JESD22-A113	MSL_1__ @ __260C__ °C		
RSH	JESD22- B106	per AEC - Q101		0/90

NOTE: AEC-1pager is attached.
 To view attachments:
 1. Download pdf copy of the PCN to your computer
 2. Open the downloaded pdf copy of the PCN
 3. Click on the paper clip icon available on the menu provided in the left/bottom portion of the screen to reveal the Attachment field
 4. Then click on the attached file.

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](#).

Current Part Number	New Part Number	Qualification Vehicle
NCV8440ASTT3G	NCV8440STCT3G	NCV8406BDTRKG
NCV8440ASTT1G	NCV8440STCT1G	NCV8406BDTRKG
NCV8406ASTT3G	NCV8406STCT3G	NCV8406BDTRKG
NCV8406ASTT1G	NCV8406STCT1G	NCV8406BDTRKG



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NCV8405ASTT3G	NCV8405STCT3G	NCV8406BDTRKG
NCV8405ASTT1G	NCV8405STCT1G	NCV8406BDTRKG
NCV8402ASTT3G	NCV8402STCT3G	NCV8406BDTRKG
NCV8402ASTT1G	NCV8402STCT1G	NCV8406BDTRKG

Appendix A: Changed Products

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
NCV8440ASTT1G		NCV8406BDTRKG	NCV8440STCT1G	
NCV8406ASTT3G		NCV8406BDTRKG	NCV8406STCT3G	
NCV8406ASTT1G		NCV8406BDTRKG	NCV8406STCT1G	
NCV8405ASTT3G		NCV8406BDTRKG	NCV8405STCT3G	
NCV8405ASTT1G		NCV8406BDTRKG	NCV8405STCT1G	
NCV8402ASTT3G		NCV8406BDTRKG	NCV8402STCT3G	
NCV8402ASTT1G		NCV8406BDTRKG	NCV8402STCT1G	