



# Final Product/Process Change Notification

Document #:FPCN23751ZG

Issue Date: 29 Apr 2022

<b>Title of Change:</b>	Fabrication Site Transfer from Oudenaarde (Belgium 6”) to onsemi Pocatello, Id (USA 8”) with Added Passivation, and Cu Wire Change [Batch 2].
<b>Proposed Changed Material First Ship Date:</b>	05 Nov 2022 or earlier if approved by customer
<b>Current Material Last Order Date:</b>	01 Sep 2021. This date was carried forward from IPCN23751Z. <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>
<b>Current Material Last Delivery Date:</b>	04 Nov 2022 <i>The Current Material Last Delivery Date may be subject to change based on build and depletion of the current (unchanged) material inventory</i>
<b>Product Category:</b>	Active components – Discrete components
<b>Contact information:</b>	Contact your local onsemi Sales Office or <a href="mailto:NoorArdila.Shaharuddin@onsemi.com">NoorArdila.Shaharuddin@onsemi.com</a>
<b>PCN Samples Contact:</b>	Contact your local onsemi Sales Office to place sample order. 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.
<b>Sample Availability Date:</b>	24 May 2022
<b>PPAP Availability Date:</b>	31 May 2022
<b>Additional Reliability Data:</b>	Contact your local onsemi Sales Office or <a href="mailto:Nicky.Siu@onsemi.com">Nicky.Siu@onsemi.com</a>
<b>Type of Notification:</b>	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 <a href="mailto:PCN.Support@onsemi.com">PCN.Support@onsemi.com</a> .
<b>Change Category</b>	
<b>Category</b>	<b>Type of Change</b>
Process - Wafer Production	Move of all or part of wafer fab to a different location/site/subcontractor, New / change of passivation or die coating (without bare die), New wafer diameter
Equipment	Production from a new equipment/tool which uses the same basic technology (replacement equipment or extension of existing equipment pool) without change of process.
Process - Assembly	Change of wire bonding
<b>Description and Purpose:</b>	
<p>This is a final notification of the wafer fabrication site transfer of the ESD dies from Oudenaarde (Belgium 6”) to onsemi Pocatello (USA 8”).</p> <p>The details of the changes are outlined in the tables below.</p> <p>The transfer of the ESD dies is due to the sale of the Oudenaarde facility, and the added passivation is per the standard flow in the receiving site.</p> <p>The Cu wire change is due to material standardization.</p> <p>Datasheet specifications and product electrical performance remain unchanged.</p>	



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Issue Date: 03 May 2022

	From	To
<b>Fab Site</b>	Wafer manufacturing in Oudenaarde, Belgium	Wafer manufacturing in onsemi Pocatello, USA
<b>Wafer size</b>	Wafer diameter 6"	Wafer diameter 8"
<b>Passivation</b>	Wafer without passivation	Wafer with passivation
<b>Bond Wire</b>	Au wire	Cu wire

Affected parts with this change will be identified by date code.

<b>Reason / Motivation for Change:</b>	Process/Materials Change
<b>Anticipated impact on fit, form, function, reliability, product safety or manufacturability:</b>	<p>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.</p> <p>No anticipated impacts.</p>

<b>Sites Affected:</b>	
<b>onsemi Sites</b>	<b>External Foundry/Subcon Sites</b>
onsemi Pocatello Idaho, United States	None
onsemi Seremban, Malaysia	
Leshan Phoenix Semiconductor, China	

<b>Marking of Parts/ Traceability of Change:</b>	Affected parts with this change will be identified by the date code
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**Reliability Data Summary:**

**QV DEVICE NAME : SZCM1213A-04SO**  
**RMS : L76697**  
**PACKAGE : SC-74**

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta = 150°C, 100% max rated V	2016 hrs	0/231
HTSL	JESD22-A103	Ta = 150°C	2016 hrs	0/231
TC	JESD22-A104	Ta = -65°C to +150°C	1000 cyc	0/231
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs	0/231
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231
PC	J-STD-020, JESD22-A113	MSL 1 @ 260°C	-	-
RSH	JESD22-B106	Ta = 265°C, 10 sec	-	0/30

**QV DEVICE NAME : SZNUP4114HMR6T1G**  
**RMS : S76741**  
**PACKAGE : TSOP-6**

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta = 150°C, 100% max rated V	2016 hrs	0/231
HTSL	JESD22-A103	Ta = 150°C	2016 hrs	0/231
TC	JESD22-A104	Ta = -65°C to +150°C	1000 cyc	0/231
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs	0/231
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231
PC	J-STD-020, JESD22-A113	MSL 1 @ 260°C	-	-
RSH	JESD22-B106	Ta = 265°C, 10 sec	-	0/30

**NOTE: AEC-1pger 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
SZNUP4114UCLW1T2G	NA	SZCM1213A-04SO
SZNUP4114HMR6T1G	NA	SZNUP4114HMR6T1G
SNUP2114UCMR6T1G	NA	SZNUP4114HMR6T1G

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**Appendix A: Changed Products**

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**PCN#: FPCN23751ZG**  
**Issue Date: Apr 29, 2022**

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
SZNUP4114UCLW1T2G		SZCM1213A-04SO	NA	
SNUP2114UCMR6T1G		SZNUP4114HMR6T1G	NA	
SZNUP4114HMR6T1G		SZNUP4114HMR6T1G	NA	