



Final Product/Process Change Notification

Document #:FPCN23751ZB

Issue Date: 28 Mar 2022

Title of Change:	Fabrication Site Transfer from Oudenaarde, Belgium (onsemi 6" Fab Site) to Pocatello Idaho, USA (onsemi 8" Fab Site) [Batch 1]	
Proposed Changed Material First Ship Date:	05 Oct 2022 or earlier if approved by customer	
Current Material Last Order Date:	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>	
Current Material Last Delivery Date:	04 Oct 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>	
Product Category:	Active components – Discrete components	
Contact information:	Contact your local onsemi Sales Office or NoorArdila.Shaharuddin@onsemi.com	
PCN Samples Contact:	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.	
Sample Availability Date:	22 Mar 2022	
PPAP Availability Date:	25 Mar 2022	
Additional Reliability Data:	Contact your local onsemi Sales Office or Nicky.Siu@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	Move of all or part of wafer fab to a different location/site/subcontractor, 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.	
Description and Purpose:		
This final change notification is to inform customers of wafer fab site transfer from Fab2 (BE2) onsemi Oudenaarde, Belgium to Fab 10 (USU) onsemi Pocatello Idaho, USA.		
	Before Change Description	After Change Description
Other Changes	Wafer manufacturing in onsemi Oudenaarde, Belgium	Wafer manufacturing in onsemi Pocatello Idaho, United States
Other Changes	Wafer diameter 6"	Wafer diameter 8"
Affected parts with this change will be identified by date code.		



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Reason / Motivation for Change:	Acquisition																																								
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 Pocatello Idaho, United States	None																																								
Marking of Parts/ Traceability of Change:	Affected parts with this change will be identified by date code																																								
Reliability Data Summary:																																									
QV DEVICE NAME : SESD9L5.0ST5G																																									
RMS : L76922																																									
PACKAGE : SOD923																																									
<table border="1"><thead><tr><th>Test</th><th>Specification</th><th>Condition</th><th>Interval</th><th>Results</th></tr></thead><tbody><tr><td>HTRB</td><td>JESD22-A108</td><td>Ta = 150°C, 100% max rated V</td><td>2016 hrs</td><td>0/231</td></tr><tr><td>HTSL</td><td>JESD22-A103</td><td>Ta = 150°C</td><td>2016 hrs</td><td>0/231</td></tr><tr><td>TC</td><td>JESD22-A104</td><td>Ta = -65°C to +150°C</td><td>1000 cyc</td><td>0/231</td></tr><tr><td>HAST</td><td>JESD22-A110</td><td>130°C, 85% RH, 18.8psig, bias</td><td>192 hrs</td><td>0/231</td></tr><tr><td>uHAST</td><td>JESD22-A118</td><td>130°C, 85% RH, 18.8psig, unbiased</td><td>96 hrs</td><td>0/231</td></tr><tr><td>PC</td><td>J-STD-020, JESD22-A113</td><td>MSL 1 @ 260°C</td><td>-</td><td>-</td></tr><tr><td>RSH</td><td>JESD22-B106</td><td>Ta = 265°C, 10 sec</td><td>-</td><td>0/30</td></tr></tbody></table>	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	
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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.																																									



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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
SZESD9R3.3ST5G	NA	SESD9L5.0ST5G
SZESD9M5.0ST5G	NA	SESD9L5.0ST5G
SESD9L5.0ST5G	NA	SESD9L5.0ST5G