



## Final Product/Process Change Notification

Document #:FPCN23658ZM

Issue Date:18 Jan 2022

|   |  |
|---|--|
| <b>Title of Change:</b>                           | Wafer fab transfer to onsemi Gresham, Oregon USA from onsemi Fab2, Oudenaarde, Belgium related to Fab2 sale  |
| <b>Proposed Changed Material First Ship Date:</b> | 21 Jul 2022 or earlier if approved by customer   |
| <b>Current Material Last Order Date:</b>          | 31 Jan 2022 #PD24321Z<br><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>       | 20 Jul 2022<br><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 – Integrated circuits  |
| <b>Contact information:</b>                       | Contact your local onsemi Sales Office or <a href="mailto:Jelle.Genne@onsemi.com">Jelle.Genne@onsemi.com</a>   |
| <b>PCN Samples Contact:</b>                       | Contact your local onsemi Sales Office to place sample order.<br>Sample requests are to be submitted no later than 45 days after publication of this change notification.<br>Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.   |
| <b>Sample Availability Date:</b>                  | 24 Jan 2022  |
| <b>PPAP Availability Date:</b>                    | 24 Jan 2022  |
| <b>Additional Reliability Data:</b>               | Contact your local onsemi Sales Office or <a href="mailto:Catherine.DeKeukeleire@onsemi.com">Catherine.DeKeukeleire@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.<br>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,<br>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 mold compound,<br>Change in process technology (e.g., die attach, bonding, moulding, plating, trim and form, lead frame preparation, ...),<br>Change of direct material supplier,<br>Change of product marking   |

#### Description and Purpose:

Wafer fab transfer to onsemi Gresham, Oregon USA from onsemi Fab2, Oudenaarde, Belgium related to Fab2 sale. Change of leadframe and mold compound are also included. Part marking will be adjusted.

|                   | Before Change Description              | After Change Description          |
|-------------------|--|-----------------------------------|
| Fab Site transfer | onsemi Fab2, Oudenaarde, Belgium 6inch | onsemi Gresham, Oregon USA 8inch  |
| LeadFrame         | N42423E711 (LF SSOP36 4.0X5.8 PPF)     | N42423E811 (LF SSOP36 4.0X5.8 PP) |
| Mold Compound     | G600                                   | G700LS                            |
| Part Marking      | Without Fab Indicator                  | With Fab Indicator                |

## Marking Changes

Before



A = ASSEMBLY LOCATION  
WL = WAFER LOT  
YYWW = YEAR / WORK WEEK  
G = Pb-Free Designator

After



F = FAB LOCATION  
0L247-003-ASY = Gresham = 8 inch = G  
A = ASSEMBLY LOCATION  
WL = WAFER LOT  
YYWW = YEAR / WORK WEEK  
G = Pb-Free Designator

#### Reason / Motivation for Change:

Source/Supply/Capacity Changes

#### 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.



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|--|-------------------------------------|--------------------------------------|
| <b>Sites Affected:</b>   |                                     |                                      |
| <b>onsemi Sites</b>  |                                     | <b>External Foundry/Subcon Sites</b> |
| onsemi Carmona, Philippines  |                                     | None                                 |
| onsemi Oudenaarde, Belgium   |                                     |                                      |
| onsemi, Gresham United States  |                                     |                                      |
| <b>Marking of Parts/ Traceability of Change:</b>   | Traceability guaranteed by datecode |                                      |
| <b>Reliability Data Summary:</b><br><br><b>NOTE: AEC-1pager is attached.</b><br><i>To view attachments:</i><br><ol style="list-style-type: none"><li>1. Download pdf copy of the PCN to your computer</li><li>2. Open the downloaded pdf copy of the PCN</li><li>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</li><li>4. Then click on the attached file</li></ol> |                                     |                                      |
| <b>Electrical Characteristics Summary:</b><br><br>Electrical characteristics are not impacted.   |                                     |                                      |
| <b>List of Affected Parts:</b><br><br><b>Note:</b> 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 <b><u>PCN Customized Portal</u></b> .   |                                     |                                      |
| <b>Current Part Number</b>   | <b>New Part Number</b>              | <b>Qualification Vehicle</b>         |
| NCV78247DQ0R2G   | NCV78247DQ0AR2G                     | 0L247-600                            |