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|---|---|
| Title of Change: | Fab Transfer to ON Semiconductor Gresham, Oregon as wafer fab location for NCV7471DQ5R2G, NCV7471ADQ5R2G, NCV7471BDQ5R2G and NCV7471CDQ5R2G – currently manufactured in ON Semiconductor Fab10, Pocatello. In addition we will convert to Cu Wire. |
| Proposed Changed Material First Ship Date: | 20 Feb 2021 or earlier if approved by customer |
| Current Material Last Order Date: | 18 Dec 2020 <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: | 19 Feb 2021 <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 ON Semiconductor Sales Office or Alicia.Tuckett@onsemi.com |
| PCN Samples Contact: | Contact your local ON Semiconductor 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: | 15 May 2020 |
| PPAP Availability Date: | 18 Dec 2020 |
| Additional Reliability Data: | Contact your local ON Semiconductor Sales Office or Dimitri.Tack@onsemi.com |
| Type of Notification: | This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 12 months prior to implementation of the change or earlier upon customer approval. ON Semiconductor 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 Change of gate material / dielectrics |
| 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 |

Description and Purpose:

Fab Transfer to ON Semiconductor Gresham, Oregon as wafer fab location for NCV7471DQ5R2G, NCV7471ADQ5R2G, NCV7471BDQ5R2G and NCV7471CDQ5R2G – currently manufactured in ON Semiconductor Fab10, Pocatello. In addition we will convert to Cu Wire.

| | Before Change Description | After Change Description |
|---------------------|---------------------------|--------------------------|
| Fab Transfer | Fab10, Pocatello, Idaho | Gresham, Oregon |
| Bond Wire | Au | PdCu (Paladium Copper) |



| Reason / Motivation for Change: | Quality improvement | |
|---|--|-----------------------|
| Anticipated impact on fit, form, function, reliability, product safety or manufacturability: | <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 ON Semiconductor in relation to the PCN, associated risks are verified and excluded.</p> <p>No anticipated impacts.</p> | |
| Sites Affected: | | |
| ON Semiconductor Sites | External Foundry/Subcon Sites | |
| - Internal Site not in list - | None | |
| ON Semiconductor Carmona, Philippines | | |
| Marking of Parts/ Traceability of Change: | The affected products will be identified with date code. | |
| Reliability Data Summary: | | |
| <p>AEC-1 pager for NCV7471DQ5R2G with Pd coated Cu wires (PCC) and wafer manufacturing in Gresham (Oregon) is attached.</p> <p>Qualification and AEC-1 pager for NCV7471BDQ5R2G and NCV7471CDQ5R2G, processed with proposed change, will be finalized and provided before the proposed change material first ship date</p> <p>To view attachments:</p> <ol style="list-style-type: none"> 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/s | | |
| Electrical Characteristics Summary: | | |
| Electrical characteristics are not impacted. | | |
| List of Affected Parts: | | |
| <p>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.</p> | | |
| Current Part Number | New Part Number | Qualification Vehicle |
| NCV7471DQ5R2G | NCV7471CDQ5R2G | NCV7471CDQ5R2G |
| NCV7471ADQ5R2G | NCV7471CDQ5R2G | NCV7471CDQ5R2G |
| NCV7471BDQ5R2G | NCV7471BDQ5R2G | NCV7471BDQ5R2G |
| NCV7471CDQ5R2G | NCV7471CDQ5R2G | NCV7471CDQ5R2G |