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|---|---|
| Title of Change: | Gresham Devices as Drop-In Replacements for Current FAB2 Devices |
| Proposed Changed Material First Ship Date: | 24 Jun 2022 or earlier if approved by customer |
| Current Material Last Order Date: | 30 Jun 2021 |
| Current Material Last Delivery Date: | 12 months after FPCN issue date, unless otherwise mutually agreed |
| Product Category: | Active components – Integrated circuits |
| Contact information: | Contact your local ON Semiconductor Sales Office or Kevin.Mathews@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. |
| Additional Reliability Data: | Contact your local ON Semiconductor Sales Office or Tomas.Vajter@onsemi.com |
| Type of Notification: | This is an Initial Product/Process Change Notification (IPC2N) sent to customers. An IPC2N is an advance notification about an upcoming change and contains general information regarding the change details and devices affected. It also contains the preliminary reliability qualification plan. The completed qualification and characterization data will be included in the Final Product/Process Change Notification (FPCN). This IPC2N notification will be followed by a Final Product/Process Change Notification (FPCN) at least 12 months prior to implementation of the change. In case of questions, contact <PCN.Support@onsemi.com> . |

Change Category

| Category | Type of Change |
|----------------------------|--|
| Design | Design Change in Active Elements |
| Process - Wafer Production | Change in process technology (e. g. process changes like lithography, etch, oxide deposition, diffusion, die back surface preparation/backgrind, ...), Move of all or part of wafer fab to a different location/site/subcontractor, New wafer diameter |
| Data Sheet | Correction of data sheet / errata |

Description and Purpose:

Change of design to new wafer technology to support new wafer technology. Change of wafer processing technology from PS5B currently manufactured in Fab2, Oudenaarde, Belgium (150 mm fab) to I3T50 in Gresham, Oregon, USA (200 mm fab). Old PS5B technology replaced by the more advanced I3T50 wafer process. PS5B wafer technology is nearing end of life and cannot support future production needs.

These changes are also related to the Fab2 manufacturing site sale.

| Wafer fab location | Fab2, Oudenaarde, Belgium (Current Fab) | ON Gresham, Oregon, USA (New Fab) |
|--------------------|---|-----------------------------------|
| Wafer Diameter | Substrate: Si (150mm) 6" | Substrate: Si (200mm) 8" |
| Wafer Technology | PS5B | I3T50 |



| Product marking change | From | To |
|------------------------|----------------|----------------|
| NCV85081BPD50R2G | Line1:5081B5 | Line1:5081C5 |
| NCV86601BDT50RKG | Line1:6601B5G | Line1:7601C5G |
| NCV86602BDT33RKG | Line1:6602B3G | Line1:7602C3G |
| NCV86603BDT33RKG | Line1:6603B3G | Line1:7603C3G |
| NCV8668ABD133R2G | Line1:668AB3 | Line1:768CAB3 |
| NCV8668ABD150R2G | Line1:668AB5 | Line1:768CAB5 |
| NCV8668ABPD50R2G | Line1:668AB5 | Line1:768CAB5 |
| NCV87722D5S33R4G | Line2:V8772233 | Line2:V8772C34 |
| NCV87722DT33RKG | Line1:772233G | Line1:772C34G |
| NCV87722DT50RKG | Line1:772250G | Line1:772C54G |
| NCV8851-1DBR2G | Line2: 51-1 | Line2: 56A |

| Reason / Motivation for Change: | Source/Supply/Capacity Changes | |
|---|---|-----------------------|
| Anticipated impact on fit, form, function, reliability, product safety or manufacturability: | No anticipated impacts. | |
| Sites Affected: | | |
| ON Semiconductor Sites | External Foundry/Subcon Sites | |
| ON Semiconductor Gresham, Oregon, USA | None | |
| ON Semiconductor Oudenaarde, Belgium | | |
| Marking of Parts/ Traceability of Change: | New OPNs with updated package markings. | |
| Reliability Data Summary: | | |
| Qual plans are device specific and will be provided upon request. | | |
| Electrical Characteristics Summary: | | |
| Differences to electrical characteristics are part specific will be provided in final notification. | | |
| List of Affected Parts: | | |
| <i>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.</i> | | |
| Current Part Number | New Part Number | Qualification Vehicle |
| NCV85081BPD50R2G | NCV8508CPD501R2G | NCV8508CPD501R2G |
| NCV86601BDT50RKG | NCV8760CDT501RKG | NCV8760CDT501RKG |
| NCV86602BDT33RKG | NCV8760CDT332RKG | NCV8760CDT501RKG |
| NCV86603BDT33RKG | NCV8760CDT333RKG | NCV8760CDT501RKG |
| NCV8668ABD133R2G | NCV8768CD33ABR2G | NCV8768CD50ABR2G |



Initial Product/Process Change Notification

Document #: IPCN23824Z

Issue Date: 03 Feb 2021

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| NCV8668ABD150R2G | NCV8768CD50ABR2G | NCV8768CD50ABR2G |
| NCV8668ABPD50R2G | NCV8768CPD50ABR2G | NCV8768CPD50ABR2G |
| NCV8772D5S33R4G | NCV8772CDS334R4G | NCV8772CDS334R4G |
| NCV8772DT33RKG | NCV8772CDT334RKG | NCV8772CDT504RKG |
| NCV8772DT50RKG | NCV8772CDT504RKG | NCV8772CDT504RKG |
| NCV8851-1DBR2G | NCV8856ADBR2G | NCV8856ADBR2G |