



Final Product/Process Change Notification

Document #:FPCN24693X

Issue Date:30 May 2023

| Title of Change: | Qualification of onsemi Bucheon, Korea as an additional wafer fab location for PT3 technology. | | | | | | | | |
|--|--|---|-----------------|----------------|------|----|-----------------|-----------------------|---------------------------|
| Proposed First Ship date: | 01 Sep 2023 or earlier if approved by customer | | | | | | | | |
| Contact Information: | Contact your local onsemi Sales Office or NurulAqilah.AbuHurairah@onsemi.com | | | | | | | | |
| PCN Samples Contact: | Contact your local onsemi Sales Office. Sample requests are to be submitted no later than 30 days from the date of first notification, Initial PCN or Final PCN, for this change. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements. | | | | | | | | |
| Additional Reliability Data: | Contact your local onsemi Sales Office or Joe.Chapple@onsemi.com | | | | | | | | |
| Type of Notification: | This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 90 days prior to implementation of the change. onsemi will consider this change accepted, unless an inquiry is made in writing within 30 days of delivery of this notice. To do so, contact PCN.Support@onsemi.com | | | | | | | | |
| Marking of Parts/ Traceability of Change: | Changed material can be identified by lot code. | | | | | | | | |
| Change Category: | Wafer Fab Change | | | | | | | | |
| Change Sub-Category(s): | Manufacturing Site Addition | | | | | | | | |
| Sites Affected: | | | | | | | | | |
| onsemi Sites | | External Foundry/Subcon Sites | | | | | | | |
| onsemi Bucheon, Korea | | None | | | | | | | |
| Description and Purpose: | | | | | | | | | |
| This Product Change Notification is intended to increase capacity RP3, PT3 MOSFET technology products by adding wafer fabrication to onsemi Bucheon Korea. | | | | | | | | | |
| There is no product marking change as a result of this change. | | | | | | | | | |
| <table><tr><th></th><th>From</th><th>To</th></tr><tr><td>Fab Site</td><td>TowerJazz Fab, Israel</td><td>onsemi Bucheon Fab, Korea</td></tr></table> | | | | | From | To | Fab Site | TowerJazz Fab, Israel | onsemi Bucheon Fab, Korea |
| | From | To | | | | | | | |
| Fab Site | TowerJazz Fab, Israel | onsemi Bucheon Fab, Korea | | | | | | | |
| Reliability Data Summary: | | | | | | | | | |
| QV DEVICE NAME: FDS4141 | | | | | | | | | |
| RMS: U72433 | | | | | | | | | |
| PACKAGE: SOIC8 | | | | | | | | | |
| Test | Specification | Condition | Interval | Results | | | | | |
| HTRB | JESD22-A108 | Tj= 150°C, 80% max rated V | 1008 hrs | 0/80 | | | | | |
| HTGB | JESD22-A108 | Tj= 150°C, 100% max rated Vgss | 1008 hrs | 0/80 | | | | | |
| PC | J-STD-020 JESD-A113 | MSL 1 @ 260°C, Pre IOL, TC, uHAST, HAST for surface mount pkgs only | - | - | | | | | |
| TC | JESD22-A104 | Ta= -55°C to +150°C | 1000 cyc | 0/40 | | | | | |
| HAST | JESD22-A110 | 130°C, 85% RH, 18.8psig, bias | 96 hrs | 0/40 | | | | | |
| uHAST | JESD22-A118 | 130°C, 85% RH, 18.8psig, unbiased | 96 hrs | 0/40 | | | | | |



Final Product/Process Change Notification

Document #:FPCN24693X

Issue Date:30 May 2023

QV DEVICE NAME: FDD4141

RMS: S72432

PACKAGE: DPAK3 (TO-252 3 LD)

| Test | Specification | Condition | Interval | Results |
|-------|---------------------|---|----------|---------|
| HTGB | JESD22-A108 | Tj= 150°C, 80% max rated Vgss | 1008 hrs | 0/80 |
| PC | J-STD-020 JESD-A113 | MSL 1 @ 260°C, Pre IOL, TC, uHAST, HAST for surface mount pkgs only | - | - |
| TC | JESD22-A104 | Ta= -55°C to +150°C | 1000 cyc | 0/40 |
| HAST | JESD22-A110 | 130°C, 85% RH, 18.8psig, bias | 96 hrs | 0/40 |
| uHAST | JESD22-A118 | 130°C, 85% RH, 18.8psig, unbiased | 96 hrs | 0/40 |

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**.

| Part Number | Qualification Vehicle |
|-------------|-----------------------|
| FDS4141 | FDS4141 |
| FDD4141 | FDD4141 |