



## Initial Product/Process Change Notification

Document #: IPCN24561X

Issue Date: 29 Jun 2022

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| <b>Title of Change:</b>                                                                                                                                                                                                                                                                                               | Stealth and Hyperfast wafer transfer qualification and wafer size change qualification in onsemi Roznov, Republic Czech from onsemi Bucheon, Korea.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                 |
| <b>Proposed First Ship date:</b>                                                                                                                                                                                                                                                                                      | 01 Dec 2022 or earlier if approved by customer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                 |
| <b>Contact Information:</b>                                                                                                                                                                                                                                                                                           | Contact your local onsemi Sales Office or <a href="mailto:norsahida.sahman@onsemi.com">norsahida.sahman@onsemi.com</a> , <a href="mailto:norlailihanim.nordin@onsemi.com">norlailihanim.nordin@onsemi.com</a> , <a href="mailto:daniel.jeon@onsemi.com">daniel.jeon@onsemi.com</a>                                                                                                                                                                                                                                                                                                                                                                                                           |                                 |
| <b>PCN Samples Contact:</b>                                                                                                                                                                                                                                                                                           | Contact your local onsemi Sales Office.<br>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.<br>Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.                                                                                                                                                                                                                                                                                                                                                                            |                                 |
| <b>Type of Notification:</b>                                                                                                                                                                                                                                                                                          | This is an Initial Product/Process Change Notification (IPCN) sent to customers. An IPCN 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 IPCN notification will be followed by a Final Product/Process Change Notification (FPCN) at least 90 days prior to implementation of the change. In case of questions, contact < <a href="mailto:PCN.Support@onsemi.com">PCN.Support@onsemi.com</a> > |                                 |
| <b>Marking of Parts/ Traceability of Change:</b>                                                                                                                                                                                                                                                                      | Date Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                 |
| <b>Change Category:</b>                                                                                                                                                                                                                                                                                               | Wafer Size change, Wafer Fab Change                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                 |
| <b>Change Sub-Category(s):</b>                                                                                                                                                                                                                                                                                        | Manufacturing Site Transfer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                 |
| <b>Sites Affected:</b>                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                 |
| <b>onsemi Sites</b>                                                                                                                                                                                                                                                                                                   | <b>External Foundry/Subcon Sites</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                 |
| onsemi Bucheon, Korea                                                                                                                                                                                                                                                                                                 | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                 |
| onsemi Roznov, Czech Republic                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                 |
| <b>Description and Purpose:</b>                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                 |
| This notification is to inform the customers onsemi is qualifying Stealth and Hyperfast wafers in onsemi Roznov, Czech Republic from onsemi Bucheon, Korea. Together with this change wafer size for most of the wafers will also change from 6 inch to 8 inch except for FNA25060 wafer remain as 6 inch wafer size. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                 |
|                                                                                                                                                                                                                                                                                                                       | <b>Before Change Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>After Change Description</b> |
| Wafer fab                                                                                                                                                                                                                                                                                                             | onsemi Bucheon, Korea                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | onsemi Roznov, Czech Republic   |
| Wafer size                                                                                                                                                                                                                                                                                                            | 6 inch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 8 inch (except for FNA25060)    |
| There is no product marking change as a result of this change.                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                 |



## Initial Product/Process Change Notification

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### Qualification Plan:

**QV DEVICE NAME: RHRG75120**

**PACKAGE: TO247**

| Test  | Specification                      | Condition                                  | Interval |
|-------|------------------------------------|--------------------------------------------|----------|
| HTRB  | JESD22-A108                        | Tj=175°C, 80% max rated V                  | 1008 hrs |
| IOL   | MIL-STD-750<br>(M1037)<br>AEC-Q101 | Ta=+25°C, delta Tj=100°C<br>On/off = 5 min | 6000 cyc |
| TC    | JESD22-A104                        | Ta= -55°C to +150°C                        | 1000 cyc |
| HAST  | JESD22-A110                        | 130°C, 85% RH, 18.8psig, bias              | 96 hrs   |
| uHAST | JESD22-A118                        | 130°C, 85% RH, 18.8psig, unbiased          | 96 hrs   |
| RSH   | JESD22- B106                       | Ta = 265C, 10 sec                          |          |

**QV DEVICE NAME: FFH75H60S**

**PACKAGE: TO247**

| Test  | Specification                      | Condition                                  | Interval |
|-------|------------------------------------|--------------------------------------------|----------|
| HTRB  | JESD22-A108                        | Tj=175°C, 80% max rated V                  | 1008 hrs |
| IOL   | MIL-STD-750<br>(M1037)<br>AEC-Q101 | Ta=+25°C, delta Tj=100°C<br>On/off = 5 min | 6000 cyc |
| TC    | JESD22-A104                        | Ta= -55°C to +150°C                        | 1000 cyc |
| HAST  | JESD22-A110                        | 130°C, 85% RH, 18.8psig, bias              | 96 hrs   |
| uHAST | JESD22-A118                        | 130°C, 85% RH, 18.8psig, unbiased          | 96 hrs   |
| RSH   | JESD22- B106                       | Ta = 265C, 10 sec                          |          |



## Initial Product/Process Change Notification

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**QV DEVICE NAME: FGH75T65SQDTL4**

**PACKAGE: TO247**

| Test  | Specification                      | Condition                                  | Interval |
|-------|------------------------------------|--------------------------------------------|----------|
| HTRB  | JESD22-A108                        | Ta= 175°C, 100% max rated V                | 1008 hrs |
| HTGB  | JESD22-A108                        | Ta= 175°C, 100% max rated Vgss             | 1008 hrs |
| HTSL  | JESD22-A103                        | Ta= 175°C                                  | 1008 hrs |
| IOL   | MIL-STD-750<br>(M1037)<br>AEC-Q101 | Ta=+25°C, delta Tj=100°C<br>On/off = 5 min | 6000 cyc |
| TC    | JESD22-A104                        | Ta= -55°C to +150°C                        | 1000 cyc |
| HAST  | JESD22-A110                        | 130°C, 85% RH, 18.8psig, bias              | 96 hrs   |
| uHAST | JESD22-A118                        | 130°C, 85% RH, 18.8psig, unbiased          | 96 hrs   |
| RSH   | JESD22- B106                       | Ta = 265C, 10 sec                          |          |

**QV DEVICE NAME: FGA60N65SMD**

**PACKAGE: TO3PN**

| Test  | Specification                      | Condition                                  | Interval |
|-------|------------------------------------|--------------------------------------------|----------|
| HTRB  | JESD22-A108                        | Ta= 175°C, 100% max rated V                | 1008 hrs |
| HTGB  | JESD22-A108                        | Ta= 175°C, 100% max rated Vgss             | 1008 hrs |
| HTSL  | JESD22-A103                        | Ta= 175°C                                  | 1008 hrs |
| IOL   | MIL-STD-750<br>(M1037)<br>AEC-Q101 | Ta=+25°C, delta Tj=100°C<br>On/off = 5 min | 6000 cyc |
| TC    | JESD22-A104                        | Ta= -55°C to +150°C                        | 1000 cyc |
| HAST  | JESD22-A110                        | 130°C, 85% RH, 18.8psig, bias              | 96 hrs   |
| uHAST | JESD22-A118                        | 130°C, 85% RH, 18.8psig, unbiased          | 96 hrs   |
| RSH   | JESD22- B106                       | Ta = 265C, 10 sec                          |          |



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**QV DEVICE NAME: FGHL75T65MQD**

**PACKAGE: TO247**

| Test  | Specification                      | Condition                                  | Interval |
|-------|------------------------------------|--------------------------------------------|----------|
| HTRB  | JESD22-A108                        | Ta= 175°C, 100% max rated V                | 1008 hrs |
| HTGB  | JESD22-A108                        | Ta= 175°C, 100% max rated Vgss             | 1008 hrs |
| HTSL  | JESD22-A103                        | Ta= 175°C                                  | 1008 hrs |
| IOL   | MIL-STD-750<br>(M1037)<br>AEC-Q101 | Ta=+25°C, delta Tj=100°C<br>On/off = 5 min | 6000 cyc |
| TC    | JESD22-A104                        | Ta= -55°C to +150°C                        | 1000 cyc |
| HAST  | JESD22-A110                        | 130°C, 85% RH, 18.8psig, bias              | 96 hrs   |
| uHAST | JESD22-A118                        | 130°C, 85% RH, 18.8psig, unbiased          | 96 hrs   |
| RSH   | JESD22- B106                       | Ta = 265C, 10 sec                          |          |

### 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 |
|--------------------|-----------------------|
| FGA60N65SMD        | FGA60N65SMD           |
| FGHL75T65MQD       | FGHL75T65MQD          |
| FSB50550BS         | RHRG75120, FFH75H60S  |
| FGH60N60SMD        | RHRG75120, FFH75H60S  |
| FGL40N120ANDTU     | RHRG75120, FFH75H60S  |
| FGH40T120SMD       | RHRG75120, FFH75H60S  |
| NXH240B120H3Q1PG   | RHRG75120, FFH75H60S  |
| FFH75H60S          | RHRG75120, FFH75H60S  |
| RHRG75120          | RHRG75120, FFH75H60S  |
| FSBB10CH120DF      | FGH75T65SQDTL4        |
| FNA25060           | FGH75T65SQDTL4        |
| ISL9R3060G2        | FGH75T65SQDTL4        |
| PCISL9R30120W      | FGH75T65SQDTL4        |
| NXH450N65L4Q2F2S1G | FGH75T65SQDTL4        |
| FGH75T65SHDT-F155  | FGH75T65SQDTL4        |
| FGH75T65SQDTL4     | FGH75T65SQDTL4        |
| PCR8PA5W           | FGH75T65SQDTL4        |