



## Final Product/Process Change Notification

Document #:FPCN23822X

Issue Date:17 Feb 2022

|                                                  |                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Title of Change:</b>                          | Transfer N34TS108C6ECT5G from FCI to ASE CL (bump) and Tarlac (FT/singulation/TnR)                                                                                                                                                                                                                                                                               |
| <b>Proposed First Ship date:</b>                 | 10 Jul 2022 or earlier if approved by customer                                                                                                                                                                                                                                                                                                                   |
| <b>Contact Information:</b>                      | Contact your local onsemi Sales Officer <a href="mailto:Doina.Patrascu@onsemi.com">Doina.Patrascu@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>Additional Reliability Data:</b>              | Contact your local onsemi Sales Office or <a href="mailto:Joe.Chapple@onsemi.com">Joe.Chapple@onsemi.com</a>                                                                                                                                                                                                                                                     |
| <b>Type of Notification:</b>                     | This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 90 days prior to implementation of the change.<br>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 <a href="mailto:PCN.Support@onsemi.com">PCN.Support@onsemi.com</a> |
| <b>Marking of Parts/ Traceability of Change:</b> | Traceability of change will be on the date code                                                                                                                                                                                                                                                                                                                  |
| <b>Change Category:</b>                          | Assembly Change, Test Change                                                                                                                                                                                                                                                                                                                                     |
| <b>Change Sub-Category(s):</b>                   | Manufacturing Site Transfer                                                                                                                                                                                                                                                                                                                                      |

### Sites Affected:

| onsemi Sites               | External Foundry/Subcon Sites |
|----------------------------|-------------------------------|
| onsemi Tarlac, Philippines | ASECL, Taiwan (ChungLi)       |
|                            | Flipchip International, USA   |

### Description and Purpose:

|                      | Before Change Description   | After Change Description    |
|----------------------|-----------------------------|-----------------------------|
| Bump Site            | Flipchip International, USA | ASE CL, Taiwan              |
| Structure            | 2P2M                        | 2P2M                        |
| P1 Material          | CRC2348                     | PBO HD8820 (Hitachi Dupont) |
| M1 Material          | Cu                          | Cu                          |
| Solder ball Material | SAC305                      | SAC405                      |
| Test site            | Flipchip International, USA | onsemi Tarlac, Philippines  |

There is no product marking change as a result of this change.



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### Reliability Data Summary:

QV DEVICE NAME **N34TS108C6ECT5G**

RMS **S76876**

PACKAGE **WLCSP 6**

| Test  | Specification       | Condition                         | Interval  | Results |
|-------|---------------------|-----------------------------------|-----------|---------|
| HTSL  | JESD22-A103         | Ta= 150°C                         | 1008 hrs  | 0/240   |
| TC    | JESD22-A104         | Ta= -40°C to +125°C               | 850 cyc   | 0/240   |
| HAST  | JESD22-A110         | 130°C, 85% RH, 18.8psig, bias     | 96 hrs    | 0/240   |
| uHAST | JESD22-A118         | 130°C, 85% RH, 18.8psig, unbiased | 96 hrs    | 0/240   |
| PC    | J-STD-020 JESD-A113 | MSL 1 @ 260 °C                    | 5x reflow | 0/240   |

### 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 |
|-----------------|-----------------------|
| N34TS108C6ECT5G | N34TS108C6ECT5G       |