



Final Product/Process Change Notification

Document #:FPCN25729XI

Issue Date:16 Apr 2025

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| Title of Change: | Wafer Fab Site Addition of onsemi, Bucheon Korea as Alternate Fab Site for ESD and Surge Protection Products and Datasheet Update |
| Proposed First Ship date: | 23 Jul 2025 or earlier if approved by customer |
| Contact Information: | Contact your local onsemi Sales Office |
| 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 |
| 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): | Datasheet/Product Doc change, Manufacturing Site Addition |

Sites Affected:

onsemi Sites

onsemi Bucheon, Korea

External Foundry/Subcon Sites

None

Description and Purpose:

This Final Product Change Notification (FPCN) is to inform customers about the dual source wafer fab strategy for the devices listed in the Affected Parts List.

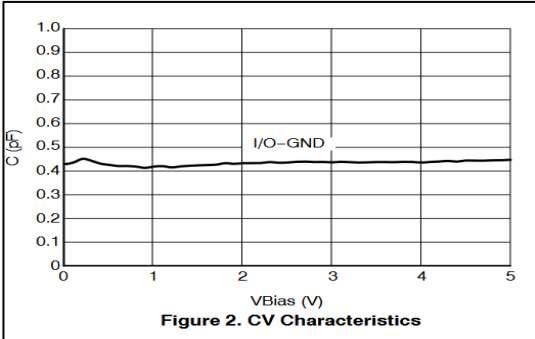
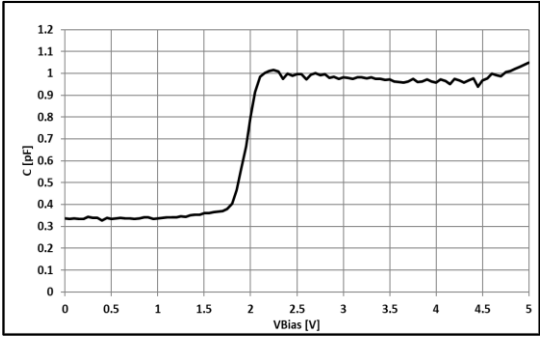
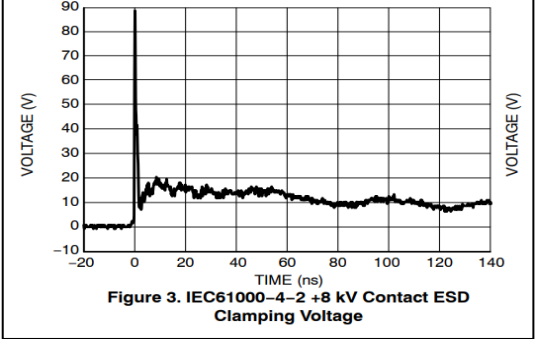
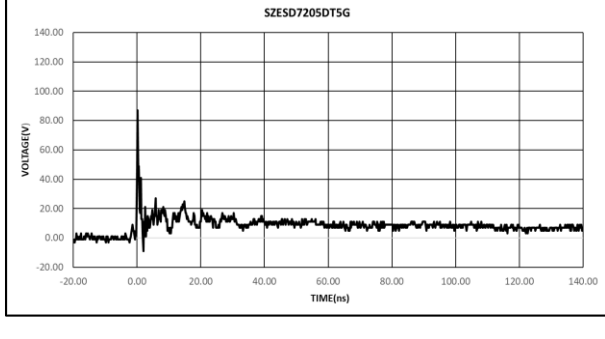
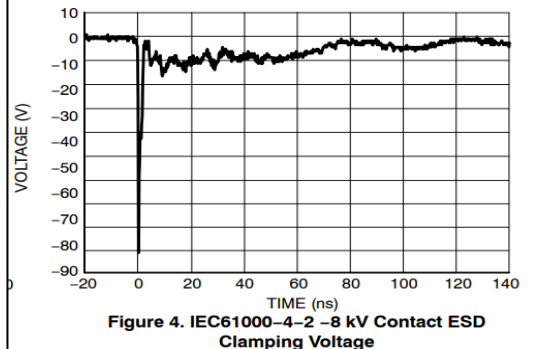
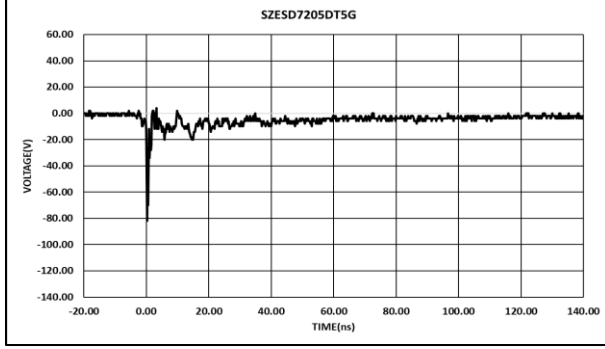
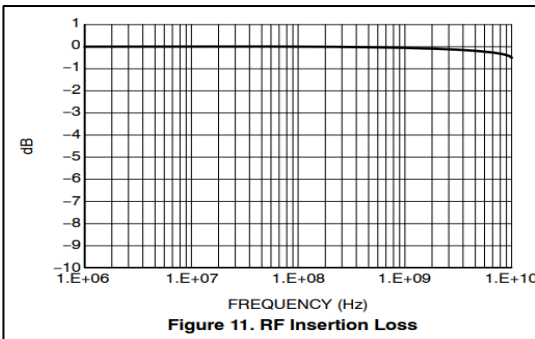
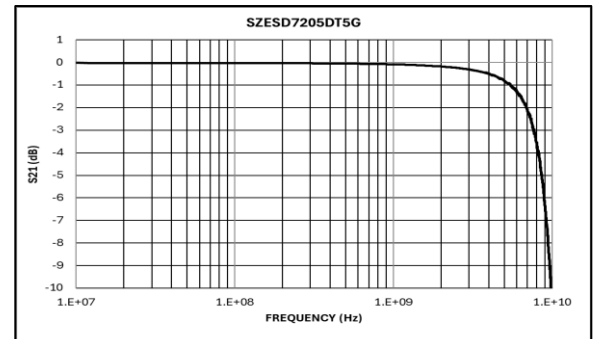
Upon implementation of this FPCN, parts can be sourced from either LA Semiconductor or onsemi Bucheon, Korea.

| | From | To |
|---|--|---|
| Manufacturing location for Wafer Fab | LA Semiconductor, Idaho, United States | LA Semiconductor, Idaho, United States onsemi Bucheon, Korea |

The datasheet for the affected part will be split for clarity.

The RF insertion loss, capacitance over frequency, and IEC61000-4-2 contact ESD clamping voltage graphs will also be updated to better represent ESD7205DT5G.

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

| Item | Current Datasheet | Proposed New Datasheet |
|---|---|--|
| Figure 2 CV Characteristics | <p>ESD7205DT5G</p>  <p>Figure 2. CV Characteristics</p> | <p>ESD7205DT5G</p>  |
| Figure 3 IEC61000-4-2 +8Kv Contact ESD | <p>ESD7205DT5G</p>  <p>Figure 3. IEC61000-4-2 +8 kV Contact ESD Clamping Voltage</p> | <p>ESD7205DT5G</p> <p>SZESD7205DT5G</p>  |
| Figure 4 IEC61000-4-2 -8Kv Contact ESD | <p>ESD7205DT5G</p>  <p>Figure 4. IEC61000-4-2 -8 kV Contact ESD Clamping Voltage</p> | <p>ESD7205DT5G</p> <p>SZESD7205DT5G</p>  |
| Figure 11 RF Insertion Loss | <p>ESD7205DT5G</p>  <p>Figure 11. RF Insertion Loss</p> | <p>ESD7205DT5G</p> <p>SZESD7205DT5G</p>  |

| Item | Current Datasheet | Proposed New Datasheet |
|---|---|------------------------|
| Figure 12 Capacitance over Frequency | <p>ESD7205DT5G</p> <p>Figure 12. Capacitance over Frequency</p> | <p>ESD7205DT5G</p> |

Reliability Data Summary:

QV DEVICE NAME: SZESD7205DT5G

RMS: L97194, L100723

PACKAGE: SOT723

| Test | Specification | Condition | Interval | Results |
|---|---------------------|--|----------|---------|
| High Temperature Reverse Bias | JESD22-A108 | Ta=150°C, 100% max rated V | 1008 hrs | 0/ 231 |
| High Temperature Storage Life | JESD22-A103 | Ta=150°C | 1008 hrs | 0/ 231 |
| Preconditioning | J-STD-020 JESD-A113 | MSL 1@260°C, TC, uHAST, HAST for surface mount pkgs only | | 0/693 |
| Temperature Cycling | JESD22-A104 | Ta= -55°C to +150°C | 1000 cyc | 0/ 231 |
| Highly Accelerated Stress Test | JESD22-A110 | 130°C, 85% RH, 18.8psig, bias | 96 hrs | 0/ 231 |
| Unbiased Highly Accelerated Stress Test | JESD22-A118 | 130°C, 85% RH, 18.8psig, unbiased | 96 hrs | 0/ 231 |

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 |
|-------------|-----------------------|
| ESD7205DT5G | SZESD7205DT5G |