



<b>Title of Change:</b>	Qualify Bucheon 8" UNIFET1/UNIFET2 for SPM5 V3 OPNs using existing UNIFET1/UNIFET2 process
<b>Proposed First Ship date:</b>	19 Aug 2021 or earlier if approved by customer
<b>Contact Information:</b>	Contact your local ON Semiconductor Sales Office or <a href="mailto:Sungdae.Shin@onsemi.com">Sungdae.Shin@onsemi.com</a>
<b>PCN Samples Contact:</b>	Contact your local ON Semiconductor Sales Office or <a href="mailto:PCN.samples@onsemi.com">PCN.samples@onsemi.com</a> . 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.
<b>Additional Reliability Data:</b>	Contact your local ON Semiconductor Sales Office or <a href="mailto:Jayoung.Hong@onsemi.com">Jayoung.Hong@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. ON Semiconductor 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>	Date Code.
<b>Change Category:</b>	Wafer Fab Change
<b>Change Sub-Category(s):</b>	Manufacturing Site Addition

**Sites Affected:****ON Semiconductor Sites**

ON Semiconductor Bucheon, Korea

**External Foundry/Subcon Sites**

None

**Description and Purpose:**

Qualify Bucheon 8inch UNIFET1 & UNIFET2 for SPM5 V3 and SPM7. Both of PKG qualified 6inch only.

Same IPM PKG of SPM5 V3 is using already 8inch UNIFET1 and UNIFET2 for mass production. This time just qualify extend OPN for SPM5 V3 and SPM7.

SPM7 is QVs and SPM5 is following existing qualification data.

There are no product material changes as a result of this change.

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

**Reliability Data Summary:**

**QV DEVICE NAME:** FSB50550US / FSB50550A

**RMS:** K45104

**PACKAGE:** SPM5 ver 1.5 / SPM5 ver 2.0

Test	Specification	Condition	Interval	Results Ver 1.5	Result Ver 2.0
HTRB	JESD22-A108	150°C for 1008 hours, Vds=400V, Vcc=20V, Vin=0V	1,008 hrs	0/11	0/11
TC	JESD22-A104	Ta= -40°C to +125°C	1,000 cyc	0/11	0/11
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/11	0/11

**Electrical Characteristics Summary:**

There is impact of Electrical Characteristic

**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
FSB50650BS	FSB50550US, FSB50550A
FSB50650B	FSB50550US, FSB50550A
FSB50250BS	FSB50550US, FSB50550A
FSB50250B	FSB50550US, FSB50550A
FSB50450BSL	FSB50550US, FSB50550A
FSB50450BS	FSB50550US, FSB50550A
FSB50450BL	FSB50550US, FSB50550A
FSB50450B	FSB50550US, FSB50550A
FSB50550BB	FSB50550US, FSB50550A
FSB50550BSL	FSB50550US, FSB50550A
FSB50550BS	FSB50550US, FSB50550A
FSB50550BL	FSB50550US, FSB50550A
FSB50550B	FSB50550US, FSB50550A



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**Appendix A: Changed Products**

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**PCN#: FPCN23593X**  
**Issue Date: May 12, 2021**

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
FSB50450BSL		FSB50550US, FSB50550A	NA	
FSB50450BL		FSB50550US, FSB50550A	NA	
FSB50550BL		FSB50550US, FSB50550A	NA	
FSB50550BB		FSB50550US, FSB50550A	NA	
FSB50550BSL		FSB50550US, FSB50550A	NA	