



## Final Product/Process Change Notification

Document #:FPCN22872X

Issue Date:26 Mar 2021

<b>Title of Change:</b>	Qualification of Bucheon 8inch as an additional Wafer FAB facility for Non Punch Through Trench IGBT technology.
<b>Proposed First Ship date:</b>	03 Jul 2021 or earlier if approved by customer
<b>Contact Information:</b>	Contact your local ON Semiconductor Sales Office or <a href="mailto:Daniel.Jeon@onsemi.com">Daniel.Jeon@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>	Marking is same / trace by date code.
<b>Change Category:</b>	Wafer Fab Change
<b>Change Sub-Category(s):</b>	Manufacturing Site Addition

**Sites Affected:**

ON Semiconductor Sites	External Foundry/Subcon Sites
ON Semiconductor Bucheon, Korea	None

**Description and Purpose:**

Additional qualification of BK 8inch for Non Punch Through Trench Insulated Gate Bipolar Transistor technology for Intelligent Power Module, only qualified wafer size. No change in assembly and test.  
It is for capacity constrain solution.

There is no material change and marking change.

**Reliability Data Summary:**

QV DEVICE NAME [FNA25060](#)

RMS #48681

PACKAGE [SPM34](#)

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Tj 150°C, Vcc=20V, Vpn= 80% BV	1,008 hrs	0/12
HTSL	JESD22-A103	Ta 150°C	1,008 hrs	0/12
TC	JESD22-A104	Ta -40°C to +125°C	1,000 cyc	0/80
HAST	JESD22-A110	Ta 130°C, RH=85%, Vcc=15V, Vpn= 80% BV	96hrs	0/12
UHAST	JESD22-A118	Ta 130°C, RH=85%	96hrs	0/12

QV DEVICE NAME FNA23512A

RMS #49196

PACKAGE SPM34

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Tj 150°C, Vcc=20V, Vpn= 100% BV	1,008 hrs	0/13
HTSL	JESD22-A103	Ta 150°C	1,008 hrs	0/13
TC	JESD22-A104	Ta -40°C to +125°C	1,000 cyc	0/77
HAST	JESD22-A110	Ta 130°C, RH=85%, Vcc=15V, Vpn= 80% BV	96hrs	0/13
UHAST	JESD22-A118	Ta 130°C, RH=85%	96hrs	0/13

QV DEVICE NAME FSBB10CH120D

RMS #46522

PACKAGE SPM3V

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Tj 150°C, Vcc=20V, Vpn= 80% BV	1,008 hrs	0/11
HTSL	JESD22-A103	Ta 150°C	1,008 hrs	0/11
TC	JESD22-A104	Ta -40°C to +125°C	1,000 cyc	0/77
HAST	JESD22-A110	Ta 130°C, RH=85%, Vcc=15V, Vpn= 80% BV	96hrs	0/11
UHAST	JESD22-A118	Ta 130°C, RH=85%	96hrs	0/11

**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
FSBB10CH120DF	FNA25060 / FNA23512A / FSBB10CH120D
FSBB10CH120D	FNA25060 / FNA23512A / FSBB10CH120D
FNA27560	FNA25060 / FNA23512A / FSBB10CH120D
FNA25060	FNA25060 / FNA23512A / FSBB10CH120D
FNA25012A	FNA25060 / FNA23512A / FSBB10CH120D
FNA23512A	FNA25060 / FNA23512A / FSBB10CH120D
FNA23060	FNA25060 / FNA23512A / FSBB10CH120D
FNA22512A	FNA25060 / FNA23512A / FSBB10CH120D
FSBB10CH120DFL	FNA25060 / FNA23512A / FSBB10CH120D
FNA21012A	FNA25060 / FNA23512A / FSBB10CH120D