



## Final Product/Process Change Notification

Document #:FPCN23564X

Issue Date:09 Sep 2020

<b>Title of Change:</b>	Wafer diameter change from 5inch Bucheon to 6inch Bucheon	
<b>Proposed First Ship date:</b>	18 Dec 2020 or earlier if approved by customer	
<b>Contact Information:</b>	Contact your local ON Semiconductor Sales Office or <a href="mailto:Yuna.Im@onsemi.com">Yuna.Im@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:songyong.sim@onsemi.com">songyong.sim@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>	Lot code 2020 year.	
<b>Change Category:</b>	Wafer Fab Change	
<b>Change Sub-Category(s):</b>	Wafer diameter changes from 5inch to 6inch and adding passivation	
<b>Sites Affected:</b>		
<b>ON Semiconductor Sites</b>	<b>External Foundry/Subcon Sites</b>	
ON Semiconductor Bucheon, Korea	None	
<b>Description and Purpose:</b>		
Supply enhancement due to Bucheon 5inch fab closure instead EOL products. Qfet is qualified tech in Bucheon 6inch.		
<b>Item</b>	<b>Before Change Description</b>	<b>After Change Description</b>
Wafer diameter	Bucheon 5inch	Bucheon 6inch
Passivation	No	Nitride passivation

**Reliability Data Summary:**

QV DEVICE NAME: FQP2N40-F080

RMS: K70179, K70446

PACKAGE: TO220

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Tj=150°C, 80% max rated V	1008 hrs	0/240
HTGB	JESD22-A108	Tj=150°C, 100% max rated Vgss	1008 hrs	0/240
HTSL	JESD22-A103	Ta=150°C	1008 hrs	0/240
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 3.5 min	8572 cyc	0/120
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc	0/120
H3TRB	JESD22-A110	130°C, 85% RH, 18.8psig, bias (100V)	1008 hrs	0/120
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/120

**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
FQP2N40-F080	FQP2N40-F080