



# Final Product/Process Change Notification

Document #:FPCN23448XC

Issue Date:02 Mar 2022

<b>Title of Change:</b>	Qualification of onsemi Bucheon, Korea facility as an additional wafer fab location for Q-FET Technology	
<b>Proposed First Ship date:</b>	09 Jun 2022 or earlier if approved by customer	
<b>Contact Information:</b>	Contact your local onsemi Sales Office or <a href="mailto:Gapyeol.Kim@onsemi.com">Gapyeol.Kim@onsemi.com</a>	
<b>PCN Samples Contact:</b>	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.	
<b>Additional Reliability Data:</b>	Contact your local onsemi 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. 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>	Affected parts will be identified with a date code of ww16'22 or later	
<b>Change Category:</b>	Wafer Fab Change	
<b>Change Sub-Category(s):</b>	Manufacturing Site Addition	
<b>Sites Affected:</b>		
<b>onsemi Sites</b>	<b>External Foundry/Subcon Sites</b>	
onsemi Bucheon, Korea	Towerjazz Semiconductor, Japan (Toyama)	
<b>Description and Purpose:</b>		
<p>This Product Change Notification, which is intended to add capacity for onsemi QFET MOSFET technology products, is announcing the addition of the onsemi Bucheon, Korea, for the manufacturing of these products.</p> <p>There is no change to the orderable part number.</p> <p>There is no product marking change as result of this change.</p>		
	<b>Before Change Description</b>	<b>After Change Description</b>
FAB Site	Towerjazz Semiconductor, Japan(Toyama)	Towerjazz Semiconductor, Japan(Toyama) onsemi Bucheon, Korea



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## Reliability Data Summary:

**QV DEVICE NAME:** FQA30N40

**RMS:** U75496, U80169

**PACKAGE:** TO3PN

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta=150°C, 80% max rated V	1008 hrs	0/319
HTGB	JESD22-A108	Ta=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 = 5 min	6000 cyc	0/120
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc	0/120
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/120
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/120

**QV DEVICE NAME:** FQL40N50

**RMS:** K79647

**PACKAGE:** TO264

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
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc	0/120
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/120
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/120

## Electrical Characteristics Summary:

The temperature characterization and ESD performance meet datasheet specification. Detail of Electrical characterization result is available upon request.

## 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
FQS4900TF	FQA30N40,FQL40N50



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FQB33N10LTM	FQA30N40
FQPF33N10L	FQA30N40
FQB30N06LTM	FQA30N40
FQP30N06L	FQA30N40
FQPF30N06L	FQA30N40
FQP20N06L	FQA30N40
FQPF20N06L	FQA30N40
FQU20N06LTU	FQA30N40
FQD17N08LTM	FQA30N40
FQD13N06LTM	FQA30N40
FQP13N06L	FQA30N40
FQPF13N06L	FQA30N40
FQT13N06LTF	FQA30N40
FQU13N06LTU	FQA30N40
FQU13N06LTU-WS	FQA30N40
FQD10N20LTM	FQA30N40
FQD7N20LTM	FQA30N40
FQD5N20LTM	FQA30N40
FQA90N08	FQA30N40
FQA30N40	FQA30N40
FQA28N15	FQA30N40
FQA19N60	FQA30N40
FQP14N30	FQA30N40
FQD13N10TM	FQA30N40
FQS4901TF	FQA30N40
FQS4903TF	FQA30N40
FQPF3N25	FQA30N40
FQD5N15TM	FQA30N40
PCFQ5N40W	FQA30N40
FQU5N40TU	FQA30N40
FQPF5N40	FQA30N40
FQD6N25TM	FQA30N40
FQPF630	FQA30N40
FQT7N10TF	FQA30N40



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FQP7N20	FQA30N40
FQD7N30TM	FQA30N40
FQU12N20TU	FQA30N40
FQD12N20TM	FQA30N40
FQT13N06TF	FQA30N40
FQD13N06TM	FQA30N40
FQP13N10	FQA30N40

**Appendix A: Changed Products**

**PCN#: FPCN23448XC**  
**Issue Date: Mar 02, 2022**

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
FQB33N10LTM		FQA30N40	NA	
FQB30N06LTM		FQA30N40	NA	
FQP30N06L		FQA30N40	NA	
FQPF30N06L		FQA30N40	NA	
FQP20N06L		FQA30N40	NA	
FQPF20N06L		FQA30N40	NA	
FQU20N06LTU		FQA30N40	NA	
FQD13N06LTM		FQA30N40	NA	
FQP13N06L		FQA30N40	NA	
FQPF13N06L		FQA30N40	NA	
FQT13N06LTF		FQA30N40	NA	
FQU13N06LTU		FQA30N40	NA	
FQU13N06LTU-WS		FQA30N40	NA	
FQD10N20LTM		FQA30N40	NA	
FQD7N20LTM		FQA30N40	NA	
FQD5N20LTM		FQA30N40	NA	
FQA30N40		FQA30N40	NA	
FQA28N15		FQA30N40	NA	
FQP14N30		FQA30N40	NA	
FQD13N10TM		FQA30N40	NA	
FQS4901TF		FQA30N40	NA	
FQS4903TF		FQA30N40	NA	
FQD5N15TM		FQA30N40	NA	
FQU5N40TU		FQA30N40	NA	
FQPF5N40		FQA30N40	NA	
FQD6N25TM		FQA30N40	NA	
FQPF630		FQA30N40	NA	
FQT7N10TF		FQA30N40	NA	
FQP7N20		FQA30N40	NA	
FQD7N30TM		FQA30N40	NA	
FQD12N20TM		FQA30N40	NA	
FQT13N06TF		FQA30N40	NA	
FQD13N06TM		FQA30N40	NA	
FQP13N10		FQA30N40	NA	
FQPF33N10L		FQA30N40	NA	