



Final Product/Process Change Notification

Document #:FPCN23448XB

Issue Date:30 Nov 2021

Title of Change:	Qualification of onsemi Bucheon, Korea facility as an additional wafer fab location for Q-FET Technology	
Proposed First Ship date:	08 Mar 2022 or earlier if approved by customer	
Contact Information:	Contact your local onsemi Sales Office or Gapyeol.Kim@onsemi.com	
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 or songyong.sim@onsemi.com	
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:	Affected parts will be identified with a date code of ww05'22 or later	
Change Category:	Wafer Fab Change	
Change Sub-Category(s):	Manufacturing Site Addition	
Sites Affected:		
onsemi Sites	External Foundry/Subcon Sites	
onsemi Bucheon, Korea	Towerjazz Semiconductor, Japan (Toyama)	
Description and Purpose:		
<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>		
	Before Change Description	After Change Description
FAB Site	Towerjazz Semiconductor, Japan(Toyama)	Towerjazz Semiconductor, Japan(Toyama) onsemi Bucheon, Korea



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Reliability Data Summary:

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:

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
FQA160N08	FQL40N50
FQL40N50	FQL40N50

Appendix A: Changed Products

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
FQA160N08		FQL40N50	NA	
FQL40N50		FQL40N50	NA	