



# Initial Product/Process Change Notification

Document #: IPCN24757XA

Issue Date: 30 Jun 2022

<b>Title of Change:</b>	Qualification of onsemi Roznov as an additional wafer source for UNIFET Technology	
<b>Proposed First Ship date:</b>	01 Mar 2023 or earlier if approved by customer	
<b>Contact Information:</b>	Contact your local onsemi Sales Office or <a href="mailto:Yuna.Im@onsemi.com">Yuna.Im@onsemi.com</a>	
<b>PCN Samples Contact:</b>	<p>Contact your local onsemi Sales Office.</p> <p>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.</p> <p>Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.</p>	
<b>Type of Notification:</b>	<p>This is an Initial Product/Process Change Notification (IPCN) sent to customers. An IPCN is an advance notification about an upcoming change and contains general information regarding the change details and devices affected. It also contains the preliminary reliability qualification plan. The completed qualification and characterization data will be included in the Final Product/Process Change Notification (FPCN). This IPCN notification will be followed by a Final Product/Process Change Notification (FPCN) at least 90 days prior to implementation of the change. In case of questions, contact &lt;<a href="mailto:PCN.Support@onsemi.com">PCN.Support@onsemi.com</a>&gt;</p>	
<b>Marking of Parts/ Traceability of Change:</b>	Changed material can be identified by lot code	
<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	None	
onsemi Roznov, Czech Republic		
<b>Description and Purpose:</b>		
<p>This is an Initial Change Notification to inform customers of the qualification of onsemi Roznov, Czech Republic as an additional wafer fab location for UNIFET Technology. Upon the expiration of this notification, all products listed here will be dual sourced from its current location, onsemi Bucheon, Korea</p>		
	<b>From</b>	<b>To</b>
Fab Site	onsemi Bucheon, Korea	onsemi, Bucheon, Korea onsemi Roznov, Czech Republic
Wafer size	6inch & 8inch	6inch & 8inch
There is no product marking change as a result of this change.		



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## Qualification Plan:

**QV DEVICE NAME:** FDA24N50

**RMS:** TBD

**PACKAGE:** TO3P

Test	Specification	Condition	Interval
HTRB	JESD22-A108	Tj=150°C, 80% max rated V	1008 hrs
HTGB	JESD22-A108	Tj=150°C, 100% max rated Vgss	1008 hrs
HTSL	JESD22-A103	Tj=150°C	1008 hrs
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs

**QV DEVICE NAME :** FSL306LRLX

**RMS :** TBD

**PACKAGE :** PDIP-7

Test	Specification	Condition	Interval
HTOL	JESD22-A108	Ta =110°C, 100 % max rated Vcc	1008 hrs
HTSL	JESD22-A103	Ta= 150°C	1008 hrs
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C	
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs

**QV DEVICE NAME:** FDA28N50

**RMS:** TBD

**PACKAGE:** TO3P

Test	Specification	Condition	Interval
HTRB	JESD22-A108	Tj=150°C, 80% max rated V	1008 hrs
HTGB	JESD22-A108	Tj=150°C, 100% max rated Vgss	1008 hrs
HTSL	JESD22-A103	Tj=150°C	1008 hrs
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs



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**QV DEVICE NAME:** FDB52N20TM

**RMS:** TBD

**PACKAGE:** D2PAK

Test	Specification	Condition	Interval
HTRB	JESD22-A108	Tj=150°C, 80% max rated V	1008 hrs
HTGB	JESD22-A108	Tj=150°C, 100% max rated Vgss	1008 hrs
HTSL	JESD22-A103	Tj=150°C	1008 hrs
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs
PC	J-STD-020 JESD-A113	MSL 1 @ 245°C	-

**QV DEVICE NAME:** FSB70250

**RMS:** TBD

**PACKAGE:** SPM7

Test	Specification	Condition	Interval
HTRB	JESD22-A108	Tj=150°C, 80% max rated V	1008 hrs
TC	JESD22-A104	Ta= -40°C to +125°C	1000 cyc
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs
THU	JESD22-A101	85°C, 85% RH, 18.8psig, unbiased	1008 hrs
PC	J-STD-020 JESD-A113	MSL 1	-

**QV DEVICE NAME:** FSB50550AB

**RMS:** TBD

**PACKAGE:** SPM-5

Test	Specification	Condition	Interval
HTRB	JESD22-A108	Tj=150°C, 80% max rated V	1008 hrs
TC	JESD22-A104	Ta= -40°C to +125°C	1000 cyc
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs
H3TRB	JESD22-A101	85°C, 85% RH, 18.8psig, bias	1008 hrs
UHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs



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**QV DEVICE NAME:** NBC9616

**RMS:** TBD

**PACKAGE:** SPM-5

Test	Specification	Condition	Interval
HTRB	JESD22-A108	Tj=150°C, 80% max rated V	1008 hrs
TC	JESD22-A104	Ta= -40°C to +125°C	1000 cyc
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs
H3TRB	JESD22-A101	85°C, 85% RH, 18.8psig, bias	1008 hrs
UHASt	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs

**QV DEVICE NAME:** FSB50550US

**RMS:** TBD

**PACKAGE:** SPM-5

Test	Specification	Condition	Interval
HTRB	JESD22-A108	Tj=150°C, 80% max rated V	1008 hrs
TC	JESD22-A104	Ta= -40°C to +125°C	1000 cyc
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs
H3TRB	JESD22-A101	85°C, 85% RH, 18.8psig, bias	1008 hrs
UHASt	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs

Estimated date for qualification completion: 1 December 2022

### 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
FSL306LRLX	FSL306LRLX
FDPF20N50T	FDA24N50, FSL306LRLX
FDB12N50TM	FDA24N50, FSL306LRLX
FDPF18N20FT	FDA24N50, FSL306LRLX
FSL136MR	FSL306LRLX
FDT4N50NZU	FDA24N50, FSL306LRLX
FSB50550AB	FSB50550AB
FSB70250	FSB70250
FDA28N50	FDA28N50



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FDB52N20TM	FDB52N20TM
FSB50550BSL	FDA28N50, FDB52N20TM, FSB70250
FSB50550BS	FDA28N50, FDB52N20TM, FSB70250
FSB50550BL	FDA28N50, FDB52N20TM, FSB70250
FSB50550BB	FDA28N50, FDB52N20TM, FSB70250
FSB50550B	FDA28N50, FDB52N20TM, FSB70250
FSB50550AS	FDA28N50, FDB52N20TM, FSB50550AB
FSB50250AS	FDA28N50, FDB52N20TM, FSB50550AB
FSB50450US	FDA28N50, FDB52N20TM, FSB50550US
FSB50450AS	FDA28N50, FDB52N20TM, FSB50550AB
FSB50825AB	FDA28N50, FDB52N20TM, FSB50550US
FSB50550ASE	FDA28N50, FDB52N20TM, FSB50550US
FDB33N25TM	FDA28N50, FDB52N20TM
FDPF33N25T	FDA28N50, FDB52N20TM
FDPF20N50FT	FDA28N50, FDB52N20TM
FDA69N25	FDA28N50, FDB52N20TM
FDA59N30	FDA28N50, FDB52N20TM
FSB50550US	FSB50550US
NBC9616	NBC9616

**Appendix A: Changed Products**
**PCN#: IPCN24757XA**  
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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
FSL306LRLX		FSL306LRLX		
FDB12N50TM		FDA24N50, FSL306LRLX		
FDPF18N20FT		FDA24N50, FSL306LRLX		
FSL136MR		FSL306LRLX		
FDT4N50NZU		FDA24N50, FSL306LRLX		
FSB50550AB		FSB50550AB		
FDA28N50		FDA28N50		
FDB52N20TM		FDB52N20TM		
FSB50550BSL		FDA28N50, FDB52N20TM, FSB70250		
FSB50550BL		FDA28N50, FDB52N20TM, FSB70250		
FSB50550BB		FDA28N50, FDB52N20TM, FSB70250		
FSB50550AS		FDA28N50, FDB52N20TM, FSB50550AB		
FSB50250AS		FDA28N50, FDB52N20TM, FSB50550AB		
FSB50450AS		FDA28N50, FDB52N20TM, FSB50550AB		
FDB33N25TM		FDA28N50, FDB52N20TM		
FDPF33N25T		FDA28N50, FDB52N20TM		
FDPF20N50FT		FDA28N50, FDB52N20TM		
FDA69N25		FDA28N50, FDB52N20TM		
FDPF20N50T		FDA24N50, FSL306LRLX		
FDA59N30		FDA28N50, FDB52N20TM		