



Final Product/Process Change Notification

Document #:FPCN22780X2

Issue Date: 24 Feb 2022

Title of Change:	Update to FPCN22780X1 - MiniGates Fab, Assembly Material and Test Change (MicroPak 6lds/MicroPak 2 6lds) with datasheet update, push out on implementation date	
Proposed First Ship date:	16 May 2022 or earlier if approved by customer	
Contact Information:	Contact your local onsemi Sales Office or logic.fpcn@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 ChangKit.Mok@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:	The CS code on the label will be changed from US to JP.	
Change Category:	Assembly Change, Wafer Fab Change, Test Change	
Change Sub-Category(s):	Manufacturing Site Addition, Shipping/Packaging/Marking, Datasheet/Product Doc change, Material Change, Manufacturing Process Change	
Sites Affected:		
onsemi Sites	External Foundry/Subcon Sites	
onsemi Maine, United States	HANA Semiconductor, Thailand	
	STARS Microelectronics, Thailand	
	Towerjazz Semiconductor, Japan (Toyama)	
	UTAC, Thailand	
Description and Purpose:		
<p>This is Update Notification is to inform customers that we are pushing out the implementation of FPCN22780X due to wafer fab constraint Tower jazz Semiconductor TPSCo.</p> <p>All the affected parts will continue be supplied using the existing qualified sites and BOM.</p>		



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Reliability Data Summary:

Qualification Vehicle : NC7SV57FHX
 Package : uPAK2 1.00 x1.00mm 6L, 0.35P
 RMS : W61419

Test	Specification	Condition	Interval	Results
HTOL	JESD22-A108	Ta=125°C, max rated Vcc	1008 hours	0/80
HTSL	JESD22-A103	Ta= 150°C	1008 hours	0/80
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C	-	0/240
TC + PC	JESD22-A104	Ta= -65°C to +150°C	500 cycles	0/80
HAST + PC	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hours	0/80
uHAST + PC	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hours	0/80
RSH	JESD22- B106	Ta = 265C, 10 sec	-	0/30
SD	JSTD002	Ta = 245C, 5 sec	-	0/10

Qualification Vehicle : NC7SPU04L6X
 Package : uPAK 1.45 x1.00mm 6L, 0.5P
 RMS : W61417

Test	Specification	Condition	Interval	Results
HTOL	JESD22-A108	Ta=125°C, max rated Vcc	1008 hours	0/80
HTSL	JESD22-A103	Ta= 150°C	1008 hours	0/80
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C	-	0/240
TC + PC	JESD22-A104	Ta= -65°C to +150°C	500 cycles	0/80
HAST + PC	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hours	0/80
uHAST + PC	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hours	0/80
RSH	JESD22- B106	Ta = 265C, 10 sec	-	0/30
SD	JSTD002	Ta = 245C, 5 sec	-	0/10

Qualification Vehicle : NC7SZ18FHX
 Package : uPAK2 1.00 x1.00mm 6L, 0.35P
 RMS : W44998

Test	Specification	Condition	Interval	Results
HTOL	JESD22-A108	Ta=125°C, max rated Vcc	1008 hours	0/80
HTSL	JESD22-A103	Ta= 150°C	1008 hours	0/80
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C	-	0/240
TC + PC	JESD22-A104	Ta= -65°C to +150°C	500 cycles	0/80
HAST + PC	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hours	0/80
uHAST + PC	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hours	0/80
RSH	JESD22- B106	Ta = 265C, 10 sec	-	0/30
SD	JSTD002	Ta = 245C, 5 sec	-	0/10



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Qualification Vehicle : NC7SZ374L6X
 Package : uPAK 1.45 x1.00mm 6L, 0.5P
 RMS : W45056 / W53124

Test	Specification	Condition	Interval	Results
HTOL	JESD22-A108	Ta=125°C, max rated Vcc	1008 hours	0/80
HTSL	JESD22-A103	Ta= 150°C	1008 hours	0/80
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C	-	0/240
TC + PC	JESD22-A104	Ta= -65°C to +150°C	500 cycles	0/80
HAST + PC	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hours	0/80
uHAST + PC	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hours	0/80
RSH	JESD22- B106	Ta = 265C, 10 sec	-	0/30
SD	JSTD002	Ta = 245C, 5 sec	-	0/10

Electrical Characteristics Summary:

Electrical characteristics 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
NC7SP08L6X	NC7SPU04L6X, NC7SZ374L6X, NC7SV57FHX, NC7SZ18FHX
NC7SV58FHX	NC7SPU04L6X, NC7SZ374L6X, NC7SV57FHX, NC7SZ18FHX
NC7SV02FHX	NC7SPU04L6X, NC7SZ374L6X, NC7SV57FHX, NC7SZ18FHX
NC7SV05FHX	NC7SPU04L6X, NC7SZ374L6X, NC7SV57FHX, NC7SZ18FHX
NC7SP17FHX	NC7SPU04L6X, NC7SZ374L6X, NC7SV57FHX, NC7SZ18FHX
NC7SP08FHX	NC7SPU04L6X, NC7SZ374L6X, NC7SV57FHX, NC7SZ18FHX
NC7SV17FHX	NC7SPU04L6X, NC7SZ374L6X, NC7SV57FHX, NC7SZ18FHX
NC7SV08FHX	NC7SPU04L6X, NC7SZ374L6X, NC7SV57FHX, NC7SZ18FHX
NC7SV05L6X	NC7SPU04L6X, NC7SZ374L6X, NC7SV57FHX, NC7SZ18FHX
NC7SV58L6X	NC7SPU04L6X, NC7SZ374L6X, NC7SV57FHX, NC7SZ18FHX
NC7SV57L6X	NC7SPU04L6X, NC7SZ374L6X, NC7SV57FHX, NC7SZ18FHX
NC7SV32L6X	NC7SPU04L6X, NC7SZ374L6X, NC7SV57FHX, NC7SZ18FHX
NC7SV00L6X	NC7SPU04L6X, NC7SZ374L6X, NC7SV57FHX, NC7SZ18FHX
NC7SV02L6X	NC7SPU04L6X, NC7SZ374L6X, NC7SV57FHX, NC7SZ18FHX
NC7SV04L6X	NC7SPU04L6X, NC7SZ374L6X, NC7SV57FHX, NC7SZ18FHX
NC7SV17L6X	NC7SPU04L6X, NC7SZ374L6X, NC7SV57FHX, NC7SZ18FHX
NC7SP126L6X	NC7SPU04L6X, NC7SZ374L6X, NC7SV57FHX, NC7SZ18FHX

Appendix A: Changed Products

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
NC7SP08L6X		NC7SPU04L6X, NC7SZ374L6X, NC7SV57FHX, NC7SZ18FHX	NA	
NC7SV00L6X		NC7SPU04L6X, NC7SZ374L6X, NC7SV57FHX, NC7SZ18FHX	NA	
NC7SV04L6X		NC7SPU04L6X, NC7SZ374L6X, NC7SV57FHX, NC7SZ18FHX	NA	
NC7SV17L6X		NC7SPU04L6X, NC7SZ374L6X, NC7SV57FHX, NC7SZ18FHX	NA	
NC7SP126L6X		NC7SPU04L6X, NC7SZ374L6X, NC7SV57FHX, NC7SZ18FHX	NA	
NC7SV32L6X		NC7SPU04L6X, NC7SZ374L6X, NC7SV57FHX, NC7SZ18FHX	NA	