Final Product/Process Change Notification

Document #:FPCN22735X1
Issue Date:15 Feb 2022

Title of Change:	Update to FPCN22735X -MiniGates Fab, Assembly Material and Test Change (SC88A/SOT953/SOT553) with datasheet update, push out implementation date.
Proposed First Ship date:	10 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 Joe.Chapple@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:	For NC7 parts, marking style will be different. For NL17 and SL17 part, the CS code on the reel label will be changed from US to JP.
Change Category:	Test Change, Assembly Change, Wafer Fab 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**
Leshan Phoenix Semiconductor, China	HANA Microelectronics, China
onsemi Cebu, Philippines	Tower Semiconductor, Israel
onsemi Maine, United States	Towerjazz Semiconductor, Japan (Toyama)
onsemi Seremban, Malaysia	

Description and Purpose:

This updated FPCN22735X1 is released to inform customers that we are pushing out the implementation of FPCN22735X due to wafer fab constraint Towerjazz Semiconductor TPSCo. All the affected parts will continue be supplied using the existing qualified sites and BOM.

Reliability Data Summary:

QV DEVICE NAME : NC7SP125P5X
RMS : 51765
PACKAGE : SC88A

Test	Specification	Condition	Interval	Results
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/804
HTSL	JESD22-A103	Ta=150°C	2016 hrs	0/234
TC	JESD22-A104	Ta= -65°C to +150°C	500 cyc	0/297
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs	0/273
UHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/234
HTOL	JESD22-A108	Ta=125°C, 100 % max rated Vcc x 1.2	1008 hrs	0/252
ELFR	JESD22-A108	Ta=125°C, 100 % max rated Vcc x 1.2	48 hrs	0/2400
RSH	JESD22- B106	Ta = 265C, 10 sec		0/90

QV DEVICE NAME: NL17SG14P5T5G
RMS : 56472
PACKAGE : SOT953

Test	Specification	Condition	Interval	Results
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/720
HTSL	JESD22-A103	Ta=150°C	2016 hrs	0/249
TC	JESD22-A104	Ta= -65°C to +150°C	500 cyc	0/234
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs	0/252
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/234
HTOL	JESD22-A108	Ta=125°C, 100 % max rated Vcc x 1.2	1008 hrs	0/252
ELFR	JESD22-A108	Ta=125°C, 100 % max rated Vcc x 1.2	48 hrs	0/2400
RSH	JESD22- B106	Ta = 265C, 10 sec		0/90

QV DEVICE Name : NL17SV16XV5T2G
RMS : 51763
PACKAGE : SOT553

Test	Specification	Condition	Interval	Results
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/753
HTSL	JESD22-A103	Ta=150°C	2016 hrs	0/252
TC	JESD22-A104	Ta= -65°C to +150°C	500 cyc	0/252
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs	0/249
UHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/252
HTOL	JESD22-A108	Ta=125°C, 100 % max rated Vcc x 1.2	2016 hrs	0/252
ELFR	JESD22-A108	Ta=125°C, 100 % max rated Vcc x 1.2	48 hrs	0/2400
RSH	JESD22- B106	Ta = 265C, 10 sec		0/90

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
NL17SG00DFT2G	NC7SP125P5X
NL17SG00P5T5G	NL17SG14P5T5G
NL17SV00XV5T2G	NL17SV16XV5T2G
NL17SG02DFT2G	NC7SP125P5X
NL17SG02P5T5G	NL17SG14P5T5G
NL17SV02XV5T2G	NL17SV16XV5T2G
SL17SG02P5T5G	NL17SG14P5T5G
NL17SG04DFT2G	NC7SP125P5X
NL17SG04P5T5G	NL17SG14P5T5G

NL17SV04XV5T2G	NL17SV16XV5T2G
NL17SG07DFT2G	NC7SP125P5X
NL17SG07P5T5G	NL17SG14P5T5G
NL17SG08DFT2G	NC7SP125P5X
NL17SG08P5T5G	NL17SG14P5T5G
NL17SV08XV5T2G	NL17SV16XV5T2G
NL17SG14DFT2G	NC7SP125P5X
NL17SG14P5T5G	NL17SG14P5T5G
NL17SV16XV5T2G	NL17SV16XV5T2G
NL17SG17DFT2G	NC7SP125P5X
NL17SG17P5T5G	NL17SG14P5T5G
NL17SG32DFT2G	NC7SP125P5X
NL17SG32P5T5G	NL17SG14P5T5G
NL17SV32XV5T2G	NL17SV16XV5T2G
NL17SG34DFT2G	NC7SP125P5X
NL17SG34P5T5G	NL17SG14P5T5G
NL17SG86DFT2G	NC7SP125P5X
NL17SG86P5T5G	NL17SG14P5T5G
NL17SG125DFT2G	NC7SP125P5X
NL17SG125P5T5G	NL17SG14P5T5G
NL17SG126DFT2G	NC7SP125P5X
NL17SG126P5T5G	NL17SG14P5T5G
NL17SG126P5T6G	NL17SG14P5T5G
NL17SGU04P5T5G	NL17SG14P5T5G
NC7SV32P5X	NC7SP125P5X
NC7SP05P5X	NC7SP125P5X
NC7SV126P5X	NC7SP125P5X
NC7SP14P5X	NC7SP125P5X
NC7SV17P5X	NC7SP125P5X
NC7SV08P5X	NC7SP125P5X
NC7SV00P5X	NC7SP125P5X
NC7SV05P5X	NC7SP125P5X
NC7SP86P5X	NC7SP125P5X
NC7SV34P5X	NC7SP125P5X

NC7SP17P5X	NC7SP125P5X
NC7SP125P5X	NC7SP125P5X
NC7SP00P5X	NC7SP125P5X
NC7SV04P5X	NC7SP125P5X
NC7SPU04P5X	NC7SP125P5X
NC7SP08P5X	NC7SP125P5X
NC7SP04P5X	NC7SP125P5X
NC7SP02P5X	NC7SP125P5X
NC7SV86P5X	NC7SP125P5X
NC7SP32P5X	NC7SP125P5X
NC7SVU04P5X	NC7SP125P5X
NC7SV02P5X	NC7SP125P5X
NC7SP34P5X	NC7SP125P5X
NC7SP126P5X	NC7SP125P5X
NC7SV14P5X	NC7SP125P5X
NC7SV125P5X	NC7SP125P5X
NC7SP38P5X	NC7SP125P5X
NL17SGU04DFT2G	NC7SP125P5X