



<b>Title of Change:</b>	uDFN/uQFN Back End Site and Material Change.	
<b>Proposed first ship date:</b>	25 April 2019	
<b>Contact information:</b>	Contact your local ON Semiconductor Sales Office or <logic.fpcn@onsemi.com>	
<b>Samples:</b>	Contact your local ON Semiconductor Sales Office or <PCN.samples@onsemi.com> 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.	
<b>Additional Reliability Data:</b>	Contact your local ON Semiconductor Sales Office or <Phine.Guevarra@onsemi.com>.	
<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. ON Semiconductor 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>	
<b>Change Part Identification:</b>	Affected product will be marked with new plant code	
<b>Change Category:</b>	<input type="checkbox"/> Wafer Fab Change <input checked="" type="checkbox"/> Assembly Change <input checked="" type="checkbox"/> Test Change <input type="checkbox"/> Other _____	
<b>Change Sub-Category(s):</b>	<input type="checkbox"/> Manufacturing Site Addition <input checked="" type="checkbox"/> Material Change <input type="checkbox"/> Datasheet/Product Doc change <input checked="" type="checkbox"/> Manufacturing Site Transfer <input type="checkbox"/> Product specific change <input checked="" type="checkbox"/> Shipping/Packaging/Marking <input checked="" type="checkbox"/> Manufacturing Process Change <input type="checkbox"/> Other: _____	
<b>Sites Affected:</b>	ON Semiconductor Sites: ON Seremban, Malaysia	External Foundry/Subcon Sites: Subcon Thailand

**Description and Purpose:**

Qualify a new subcon site to increase back end capacity. We will transfer existing assembly and test site to subcon. There is no change in form, fit and function except the marking of plant code. Materials change for before and after are stated in below table.

Material to be changed	Before Change (Existing flow)	After Change (new flow)
Assy Site	ON Seremban Malaysia	Subcon Thailand
Mold Compound	SU EMEG760	MOLDING COMPOUND; G700LTD
Wire	1.3 mil /1 mil/ 0.8 mil Au	1 mil / 0.8 mil Au
Lead frame	LF PPF	LF PPF+RT-UPG
Die Attach	DA AB 8006NS 10CC	NON-CONDUCTIVE DIE ATTACH FILM; HR-5104

	From	To
Product marking change	No change in marking style, plant code is R	No change in marking style, new plant code is S

**Reliability Data Summary:****QV DEVICE NAME: NLAS2750MUTAG****RMS: S44995****PACKAGE: uQFN 10**

Test	Specification	Condition	Interval	Results
HTOL	JESD22-A108	Ta= 125°C	2016 hrs	0/80
HTSL	JESD22-A103	Ta= 150°C	2016 hrs	0/80
TC	JESD22-A104	Ta= -65°C to + 150°C	1000 cyc	0/80
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/80
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/80
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C		0/240
RSH	JESD22- B106	Ta = 265C, 10 sec		0/15
SD	JSTD002	Ta = 245C, 10 sec		0/ 10

**QV DEVICE NAME: MC74LCX245MNTWG****RMS: S45208 ; S52475****PACKAGE: QFN 20**

Test	Specification	Condition	Interval	Results
HTOL	JESD22-A108	Ta= 125°C	2016 hrs	0/80
HTSL	JESD22-A103	Ta= 150°C	2016 hrs	0/80
TC	JESD22-A104	Ta= -65°C to + 150°C	1000 cyc	0/80
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/80
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/80
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C		0/240
RSH	JESD22- B106	Ta = 265C, 10 sec		0/15
SD	JSTD002	Ta = 245C, 10 sec		0/ 10

**QV DEVICE NAME: NLSV8T244MUTAG****RMS: S49444****PACKAGE: uDFN 20**

Test	Specification	Condition	Interval	Results
HTOL	JESD22-A108	Ta= 125°C	2016 hrs	0/80
HTSL	JESD22-A103	Ta= 150°C	2016 hrs	0/80
TC	JESD22-A104	Ta= -65°C to + 150°C	1000 cyc	0/80
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/80
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/80
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C		0/240
RSH	JESD22- B106	Ta = 265C, 10 sec		0/15
SD	JSTD002	Ta = 245C, 10 sec		0/ 10

**Electrical Characteristic Summary:**

No impact on electrical characteristics.



**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
MC74LCX244MN2TWG	NLAS2750MUTAG
NLSV4T244EMUTAG	NLSV8T244MUTAG
NLSX3014MUTAG	
NL17SG08CMUTCG	
NLSV1T34MUTBG	
NLSV4T240EMUTAG	NLSV8T244MUTAG
NLSX5011MUTCG	
NLSX5011AMUTCG	
NLSX5011AMUTAG	
NLSX5011AMUTBG	MC74LCX245MNTWG
MC74LVX4051MNTWG	
PCA9306AMUTCG	
NLSF3T125MNR2G	
PCA9306FMUTCG	
MC74HC165AMNTWG	
NLSF595MNR2G	
NLSX3373MUTAG	
MC74LCX244MNTWG	
NLSF302MNR2G	
MC74LCX245MNTWG	
NLSF3T126MNR2G	
MC74HC595AMNTWG	
NLSF1174MNR2G	
PCA9306FMUTAG	
74FST3257MNTWG	
7SB3257MUTCG	
7SB385MUTCG	
7WBD3125AMUTCG	
7WBD3126AMUTCG	
7WBD3305AMUTCG	
7WBD3306AMUTCG	
7WBD383AMUTCG	
NLSF308MNR2G	