



Final Product/Process Change Notification

Document #:FPCN25572XL

Issue Date:09 Jun 2026

Title of Change:	Update of FPCN25572X - To include final qualification reliability date for TSSOP LVX_245 Transceivers from Vanguard FAB Transfer and associated Assembly material changes
Proposed First Ship date:	16 Sep 2026 or earlier if approved by customer
Contact Information:	Contact your local onsemi Sales Office
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
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 material will have a new Orderable Part Number
Change Category:	Wafer Fab Change, Assembly Change
Change Sub-Category(s):	Material Change, Datasheet/Product Doc change, Manufacturing Site Transfer
Sites Affected:	
onsemi Sites	External Foundry/Subcon Sites
onsemi Tarlac, Philippines	Vanguard International Semiconductor, Taiwan

Description and Purpose:

onsemi wishes to inform customers of the fab manufacturing transfer from Tower to Vanguard Fab, where 200 mm wafers will be used.

The current assembly site will convert from 0.8 mil gold bond wire to 1.0 mil PCC bond wire for all affected products.

TSSOP24 products assembled at the Tarlac site will also undergo a mold compound change.

This change will also include an update to the datasheet for the absolute

Change	Before	After
Fab Site	Tower	Vanguard
Wafer Diameter	150mm	200mm

Change	Before	After
Assembly Site	onsemi Tarlac, Philippines onsemi Carmona, Philippines	onsemi Tarlac, Philippines site only
Bond Wire	0.8mil Au	1.0 mil PCC
Mold Compound	EME G600	G700LS

Electrical Parameter Change

Change	Before	After
Abs Max DC Supply Voltage – Datasheet update	-0.5 to +7.0 V	-0.5 to +6.5V



Final Product/Process Change Notification

Document #:FPCN25572XL

Issue Date:09 Jun 2026

Reliability Data Summary:

QV DEVICE NAME : NLA9535DTR2G-Q

RMS : O98138

PACKAGE : TSSOP 24

Test	Specification	Condition	Interval	Result Rej/SS
High Temperature Operating Life	JESD22-A108	Ta=125°C, 100 % max rated Vcc	1008 hrs	0/231
High Temperature Storage Life	JESD22-A103	Ta= 150°C	1008 hrs	0/231
Temperature Cycling	JESD22-A104	Ta= -65°C to +150°C	500 cyc	0/231
Highly Accelerated Stress Test	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs	0/231
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231
Wire bond pull	M883 Method 2011, Cond. C		Min Cpk 1.67	Pass
Wire bond shear	AEC-Q100-001 AEC-Q003		Min Cpk 1.67	Pass

QV DEVICE NAME : MC74LVX4245DTR2G-Q

RMS : O105269

PACKAGE : TSSOP 24

Test	Specification	Condition	Interval	Result Rej/SS
High Temperature Operating Life	JESD22-A108	Ta=125°C, 100 % max rated Vcc	1008 hrs	0/77

QV DEVICE NAME : MC74LVXC3245DWR2G

RMS : O105297

PACKAGE : SOIC 24W

Test	Specification	Condition	Interval	Result Rej/SS
High Temperature Operating Life	JESD22-A108	Ta=125°C, 100 % max rated Vcc	1008 hrs	0/231
High Temperature Storage Life	JESD22-A103	Ta= 150°C	1008 hrs	0/231
Temperature Cycling	JESD22-A104	Ta= -65°C to +150°C	500 cyc	0/231
Highly Accelerated Stress Test	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs	0/231
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231
Wire bond pull	M883 Method 2011, Cond. C		Min Cpk 1.67	Pass
Wire bond shear	AEC-Q100-001 AEC-Q003		Min Cpk 1.67	Pass

Electrical Characteristics Summary:

Electrical characteristics are not impacted, with the exception to the Abs Max DC Supply Voltage update in the datasheet.

Datasheets linked to onsemi.com:

[MC74LVX3254](#)

[MC74LVX4245](#)



Final Product/Process Change Notification

Document #:FPCN25572XL

Issue Date:09 Jun 2026

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**.

Current Part Number	New Part Number	Qualification Vehicle
MC74LVXC3245DTRG	MC74LVXC3245DTR2G	MC74LVX4245DTR2G-Q, MC74LVXC3245DWR2G
MC74LVX4245DTR2G	#NONE	MC74LVX4245DTR2G-Q, NLA9535DTR2G-Q