



Final Product/Process Change Notification  
Document #:FPCN25572XG  
Issue Date:13 Feb 2026

<b>Title of Change:</b>	Update of <b>FPCN25572X</b> - 48LD 5V multi-Gates; Vanguard FAB Transfer to include REL data.
<b>Proposed First Ship date:</b>	20 May 2026 or earlier if approved by customer
<b>Contact Information:</b>	Contact your local onsemi Sales Office
<b>PCN Samples Contact:</b>	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.
<b>Additional Reliability Data:</b>	Contact your local onsemi Sales Office
<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. 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 <a href="mailto:PCN.Support@onsemi.com">PCN.Support@onsemi.com</a>
<b>Marking of Parts/ Traceability of Change:</b>	New OPN or Date Code for products with no OPN change.
<b>Change Category:</b>	Assembly Change, Wafer Fab Change
<b>Change Sub-Category(s):</b>	Manufacturing Site Transfer, Material Change
<b>Sites Affected:</b>	
<b>onsemi Sites</b>	<b>External Foundry/Subcon Sites</b>
onsemi Tarlac, Philippines	Vanguard International Semiconductor, Taiwan

**Description and Purpose:**

This is to notify customers of 5V minigates will transfer from Tower to Vanguard Fab, and from Au to PCC Bond Wire change in the current Tarlac Assembly. The Vanguard site will use 200mm wafers. The 74LCX\* product family in TSSOP48 package and 948BQ case outline will transfer from ATEC to Tarlac.

The Tarlac assembly site will convert from 0.8mil Gold to 1.0 PCC bond wire for all affected products, in addition to lead frame and mold compound material changes. As a reminder, and as previously communicated, onsemi has no ability to support customer orders beyond November 20, 2023, sourced from Tower. Customers should work with their local sales contacts as needed to ensure supply continuity.

	<b>From</b>		<b>To</b>
<b>Fab Site</b>	Tower		Vanguard
<b>Wafer size</b>	150mm		200mm
<b>Assembly Site</b>	ATEC	Tarlac	Tarlac only
<b>LeadFrame</b>	PPF 1360100018	PPF-H70648A711	PPF-H70648A711
<b>Die Attach</b>	QMI519	CRM-1076WB	CRM-1076WB
<b>Bond Wire</b>	1.0 mil Au	0.8 mil Au	1.0 mil PCC
<b>Mold Compound</b>	G300	G600	G700LS



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**Reliability Data Summary:**

QV DEVICE NAME : MC74LCX16245DTR2G  
RMS : O105162 / O100714  
PACKAGE : TSSOP48

Test	Specification	Condition	Interval	Results
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
Preconditioning	J-STD-020 JESD-A113	MSL 1 @ 260°C, Pre TC, uHAST, HAST for surface mount pkgs only	-	0/693
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	96 hrs	0/231
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231
Resistance to Solder Heat	JESD22- B106	Ta = 265°C, 10 sec Required for through hole devices only	-	0/30

**Electrical Characteristics Summary:**

Electrical characteristics are not impacted, data 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](#).

Current Part Number	New Part Number	Qualification Vehicle
74LCX16374MTDX	#NONE	74LCX16245MTDX
74LCX16373MTDX	#NONE	74LCX16245MTDX
74LCX16245MTDX	#NONE	74LCX16245MTDX
74LCX16244MTDX	#NONE	74LCX16245MTDX
MC74LCX16373DTG	#NONE	MC74LCX16245DTR2G
M74LCX16374DTR2G	MC74LCX16374DTR2G	MC74LCX16245DTR2G
M74LCX16373DTR2G	MC74LCX16373DTR2G	MC74LCX16245DTR2G
M74LCX16245DTR2G	MC74LCX16245DTR2G	MC74LCX16245DTR2G
M74LCX16244DTR2G	MC74LCX16244DTR2G	MC74LCX16245DTR2G