



# Final Product/Process Change Notification

Document #: FPCN25572X17

Issue Date: 15 Nov 2023

<b>Title of Change:</b>	Update to <b>FPCN25572X</b> - Info for SOIC-14 Only
<b>Proposed First Ship date:</b>	16 Feb 2024 or earlier if approved by customer
<b>Contact Information:</b>	Contact your local onsemi Sales Office or <a href="mailto:logic.fpcn@onsemi.com">logic.fpcn@onsemi.com</a>
<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 or <a href="mailto:ChangKit.Mok@onsemi.com">ChangKit.Mok@onsemi.com</a>
<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>	Custom source on label will show TW instead of US to indicate new die source from Vanguard. Changed material may be identified by plant code or lot code too.
<b>Change Category:</b>	Assembly Change, Wafer Fab Change
<b>Change Sub-Category(s):</b>	Manufacturing Site Transfer, Datasheet/Product Doc change

**Sites Affected:**

onsemi Sites	External Foundry/Subcon Sites
onsemi Carmona, Philippines	ATX Kun Shan, China
	HANA Semiconductor, Thailand
	Vanguard International Semiconductor, Taiwan

**Description and Purpose:**

With reference to **FPCN25572X**, this FPCN presents the information solely for SOIC-14 package.

	From	To
<b>Fab Site</b>	Tower Semiconductor, Diodes Maine	Vanguard International Semiconductor (VIS)
<b>Wafer size</b>	150 mm, 200 mm	200 mm

	From	To		
<b>Assembly Site</b>	onsemi Carmona, Hana Micro., ATX Kunshan, ASE Chungli	onsemi Carmona	Hana Micro.	ATX Kunshan
<b>LeadFrame</b>	Cu with Ag spot	Cu with Ag spot	PPF	Cu with Ag spot
<b>Bond Wire</b>	0.8 mil Au, 0.8 mil Cu	1 mil PCC	1 mil PCC	1 mil PCC
<b>Die Attach</b>	CRM-1076WB, EN4900GC	CRM-1076WB	CRM-1076WB	EN4900GC
<b>Mold Compound</b>	G600, CEL9240HF10AK	G600	G600	CEL9240HF10AK

➤ **Marking change for specified parts listed in the marking embedded excel file:**

	From	To
<b>SOIC-14 Product Marking Change</b>	<p>           Z = Assembly Plant Code            XY = Data Code (Year &amp; Week)            KK = Lot Traceability Code            X = Device Code         </p>	<p>           A = Assembly Location            L, WL = Wafer Lot            Y, YY = Year            W, WW = Work Week            G or ■ = Pb-Free Package            X = Device Code         </p>

➤ **Case outline drawing update:**

	From	To
<b>Case Outline Document</b>	CASE 751A-03	CASE 751EF

**Reliability Data Summary:**

➤ Refer to embedded excel RMS O89379, O89388, and O89394.

**To view attachments:**

1. Download pdf copy of the PCN to your computer
2. Open the downloaded pdf copy of the PCN
3. Click on the paper clip icon available on the menu provided in the left/bottom portion of the screen to reveal the Attachment field
4. Then click on the attached file.

**Electrical Characteristics Summary:**

	From	To
<b>Datasheet</b>	Current Revision	New Revision
<b>Absolute Max Voltage Rating</b>	7.0 V	6.5 V

➤ **Additional change for only LCX Device Family:**

	From	To
<b>Recommended Operating Voltage Range</b>	2.0 – 3.6 V	1.65 – 5.5 V
<b>Recommended Operating Temperature Range</b>	-40 – 85°C	-40 – 125°C



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### 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
MM74HCT164MX	MC74LCX14DR2G
MM74HC164MX	MC74LCX14DR2G
MM74HC164M	MC74LCX14DR2G
MC74HC393ADR2G	MC74LCX14DR2G
MC74HC393ADG	MC74LCX14DR2G
MC74HC20ADG	MC74LCX14DR2G
MC74HC164BDR2G	MC74LCX14DR2G
MC74HC164ADR2G	MC74LCX14DR2G
MM74HCU04MX	MC74LCX14DR2G
MM74HCU04M	MC74LCX14DR2G
MM74HCT74MX	MC74LCX14DR2G
MM74HCT74M	MC74LCX14DR2G
MM74HCT32MX	MC74LCX14DR2G
MM74HCT32M	MC74LCX14DR2G
MM74HCT14MX	MC74LCX14DR2G
MM74HCT14M	MC74LCX14DR2G
MM74HCT08MX	MC74LCX14DR2G
MM74HCT08M	MC74LCX14DR2G
MM74HCT05MX	MC74LCX14DR2G
MM74HCT04MX	MC74LCX14DR2G
MM74HCT04M	MC74LCX14DR2G
MM74HC86MX	MC74LCX14DR2G
MM74HC86M	MC74LCX14DR2G
MM74HC74AMX	MC74LCX14DR2G
MM74HC74AM	MC74LCX14DR2G
MM74HC32MX	MC74LCX14DR2G
MM74HC32M	MC74LCX14DR2G
MM74HC14MX	MC74LCX14DR2G
MM74HC14M	MC74LCX14DR2G



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MM74HC132MX	MC74LCX14DR2G
MM74HC132M	MC74LCX14DR2G
MM74HC126MX	MC74LCX14DR2G
MM74HC126M	MC74LCX14DR2G
MM74HC125MX	MC74LCX14DR2G
MM74HC125M	MC74LCX14DR2G
MM74HC08MX	MC74LCX14DR2G
MM74HC08M	MC74LCX14DR2G
MM74HC04MX	MC74LCX14DR2G
MM74HC04M	MC74LCX14DR2G
MM74HC02MX	MC74LCX14DR2G
MM74HC02M	MC74LCX14DR2G
MM74HC00MX	MC74LCX14DR2G
MM74HC00M	MC74LCX14DR2G
MC74VHCU04DR2G	MC74LCX14DR2G
MC74VHCT86ADR2G	MC74LCX14DR2G
MC74VHCT74ADR2G	MC74LCX14DR2G
MC74VHCT50ADR2G	MC74LCX14DR2G
MC74VHCT32ADR2G	MC74LCX14DR2G
MC74VHCT14ADR2G	MC74LCX14DR2G
MC74VHCT132ADR2G	MC74LCX14DR2G
MC74VHCT126ADR2G	MC74LCX14DR2G
MC74VHCT125ADR2G	MC74LCX14DR2G
MC74VHCT08ADR2G	MC74LCX14DR2G
MC74VHCT04ADR2G	MC74LCX14DR2G
MC74VHCT02ADR2G	MC74LCX14DR2G
MC74VHCT00ADR2G	MC74LCX14DR2G
MC74VHC86DR2G	MC74LCX14DR2G
MC74VHC74DR2G	MC74LCX14DR2G
MC74VHC50DR2G	MC74LCX14DR2G
MC74VHC50DG	MC74LCX14DR2G
MC74VHC32DR2G	MC74LCX14DR2G
MC74VHC14DR2G	MC74LCX14DR2G
MC74VHC14DG	MC74LCX14DR2G



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MC74VHC132DR2G	MC74LCX14DR2G
MC74VHC132DG	MC74LCX14DR2G
MC74VHC126DR2G	MC74LCX14DR2G
MC74VHC125DR2G	MC74LCX14DR2G
MC74VHC125DG	MC74LCX14DR2G
MC74VHC08DR2G	MC74LCX14DR2G
MC74VHC04DR2G	MC74LCX14DR2G
MC74VHC02DR2G	MC74LCX14DR2G
MC74VHC00DR2G	MC74LCX14DR2G
MC74LVXU04DR2G	MC74LCX14DR2G
MC74LVX86DR2G	MC74LCX14DR2G
MC74LVX74DR2G	MC74LCX14DR2G
MC74LVX50DR2G	MC74LCX14DR2G
MC74LVX32DR2G	MC74LCX14DR2G
MC74LVX14DR2G	MC74LCX14DR2G
MC74LVX132DR2G	MC74LCX14DR2G
MC74LVX125DR2G	MC74LCX14DR2G
MC74LVX125DG	MC74LCX14DR2G
MC74LVX08DR2G	MC74LCX14DR2G
MC74LVX04DR2G	MC74LCX14DR2G
MC74LVX02DR2G	MC74LCX14DR2G
MC74LVX00DR2G	MC74LCX14DR2G
MC74LCXU04DR2G	MC74LCX14DR2G
MC74HC14ADG	MC74LCX14DR2G
MC74HC132ADR2G	MC74LCX14DR2G
MC74HC132ADG	MC74LCX14DR2G
MC74HC126ADR2G	MC74LCX14DR2G
MC74HC125ADR2G	MC74LCX14DR2G
MC74HC125ADG	MC74LCX14DR2G
MC74HC11ADR2G	MC74LCX14DR2G
MC74HC11ADG	MC74LCX14DR2G
MC74HC10ADR2G	MC74LCX14DR2G
MC74HC08ADR2G	MC74LCX14DR2G
MC74HC08ADG	MC74LCX14DR2G



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MC74HC05ADR2G	MC74LCX14DR2G
MC74HC05ADG	MC74LCX14DR2G
MC74HC04ADR2G	MC74LCX14DR2G
MC74HC04ADG	MC74LCX14DR2G
MC74HC03ADR2G	MC74LCX14DR2G
MC74HC03ADG	MC74LCX14DR2G
MC74HC02ADR2G	MC74LCX14DR2G
MC74HC02ADG	MC74LCX14DR2G
MC74HC00ADR2G	MC74LCX14DR2G
MC74HC00ADG	MC74LCX14DR2G
MC74ACT86DR2G	MC74LCX14DR2G
MC74ACT74DR2G	MC74LCX14DR2G
MC74ACT74DG	MC74LCX14DR2G
MC74ACT32DR2G	MC74LCX14DR2G
MC74ACT32DG	MC74LCX14DR2G
MC74ACT20DR2G	MC74LCX14DR2G
MC74ACT20DG	MC74LCX14DR2G
MC74ACT14DR2G	MC74LCX14DR2G
MC74ACT14DG	MC74LCX14DR2G
MC74ACT132DR2G	MC74LCX14DR2G
MC74ACT132DG	MC74LCX14DR2G
MC74ACT125DR2G	MC74LCX14DR2G
MC74ACT125DG	MC74LCX14DR2G
MC74ACT11DR2G	MC74LCX14DR2G
MC74ACT10DR2G	MC74LCX14DR2G
MC74ACT08DR2G	MC74LCX14DR2G
MC74ACT08DG	MC74LCX14DR2G
MC74ACT05DR2G	MC74LCX14DR2G
MC74ACT05DG	MC74LCX14DR2G
MC74ACT04DR2G	MC74LCX14DR2G
MC74ACT02DR2G	MC74LCX14DR2G
MC74ACT02DG	MC74LCX14DR2G
MC74ACT00DR2G	MC74LCX14DR2G
MC74ACT00DG	MC74LCX14DR2G



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MC74AC86DR2G	MC74LCX14DR2G
MC74AC86DG	MC74LCX14DR2G
MC74AC74DR2G	MC74LCX14DR2G
MC74AC74DG	MC74LCX14DR2G
MC74AC32DR2G	MC74LCX14DR2G
MC74AC32DG	MC74LCX14DR2G
MC74AC20DR2G	MC74LCX14DR2G
MC74AC20DG	MC74LCX14DR2G
MC74AC14DR2G	MC74LCX14DR2G
MC74AC14DG	MC74LCX14DR2G
MC74AC132DR2G	MC74LCX14DR2G
MC74AC132DG	MC74LCX14DR2G
MC74AC125DR2G	MC74LCX14DR2G
MC74AC125DG	MC74LCX14DR2G
MC74AC11DR2G	MC74LCX14DR2G
MC74AC11DG	MC74LCX14DR2G
MC74AC10DR2G	MC74LCX14DR2G
MC74AC10DG	MC74LCX14DR2G
MC74AC08DR2G	MC74LCX14DR2G
MC74AC08DG	MC74LCX14DR2G
MC74AC05DR2G	MC74LCX14DR2G
MC74AC05DG	MC74LCX14DR2G
MC74AC04DR2G	MC74LCX14DR2G
MC74AC04DG	MC74LCX14DR2G
MC74AC02DR2G	MC74LCX14DR2G
MC74AC02DG	MC74LCX14DR2G
MC74AC00DR2G	MC74LCX14DR2G
MC74AC00DG	MC74LCX14DR2G
74VHC08MX	MC74LCX14DR2G
74VHC08M	MC74LCX14DR2G
74LVX08MX	MC74LCX14DR2G
74ACT32SCX	MC74LCX14DR2G
74ACT32SC	MC74LCX14DR2G
74ACT14SCX	MC74LCX14DR2G



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74ACT08SCX	MC74LCX14DR2G
74ACT08SC	MC74LCX14DR2G
74ACT04SCX	MC74LCX14DR2G
74ACT04SC	MC74LCX14DR2G
74ACT00SCX	MC74LCX14DR2G
74AC86SCX	MC74LCX14DR2G
74AC32SCX	MC74LCX14DR2G
74AC14SCX	MC74LCX14DR2G
74AC14SC	MC74LCX14DR2G
74AC08SCX	MC74LCX14DR2G
74AC04SCX	MC74LCX14DR2G
74AC04SC	MC74LCX14DR2G
74AC00SCX	MC74LCX14DR2G
MC74LCXU04DG	MC74LCX14DR2G
MC74LCX86DR2G	MC74LCX14DR2G
MC74LCX74DR2G	MC74LCX14DR2G
MC74LCX74DG	MC74LCX14DR2G
MC74LCX32DR2G	MC74LCX14DR2G
MC74LCX14DR2G	MC74LCX14DR2G
MC74LCX14DG	MC74LCX14DR2G
MC74LCX125DR2G	MC74LCX14DR2G
MC74LCX125DG	MC74LCX14DR2G
MC74LCX08DR2G	MC74LCX14DR2G
MC74LCX08DG	MC74LCX14DR2G
MC74LCX07DR2G	MC74LCX14DR2G
MC74LCX07DG	MC74LCX14DR2G
MC74LCX06DR2G	MC74LCX14DR2G
MC74LCX06DG	MC74LCX14DR2G
MC74LCX04DR2G	MC74LCX14DR2G
MC74LCX04DG	MC74LCX14DR2G
MC74LCX02DR2G	MC74LCX14DR2G
MC74LCX00DR2G	MC74LCX14DR2G
MC74LCX00DG	MC74LCX14DR2G
MC74HCU04ADR2G	MC74LCX14DR2G





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MC74HCU04ADG	MC74LCX14DR2G
MC74HCT86ADR2G	MC74LCX14DR2G
MC74HCT74ADR2G	MC74LCX14DR2G
MC74HCT74ADG	MC74LCX14DR2G
MC74HCT32ADR2G	MC74LCX14DR2G
MC74HCT14ADR2G	MC74LCX14DR2G
MC74HCT14ADG	MC74LCX14DR2G
MC74HCT132ADR2G	MC74LCX14DR2G
MC74HCT125ADR2G	MC74LCX14DR2G
MC74HCT08ADR2G	MC74LCX14DR2G
MC74HCT04ADR2G	MC74LCX14DR2G
MC74HCT04ADG	MC74LCX14DR2G
MC74HC86ADR2G	MC74LCX14DR2G
MC74HC86ADG	MC74LCX14DR2G
MC74HC74ADR2G	MC74LCX14DR2G
MC74HC74ADG	MC74LCX14DR2G
MC74HC73ADR2G	MC74LCX14DR2G
MC74HC73ADG	MC74LCX14DR2G
MC74HC32ADR2G	MC74LCX14DR2G
MC74HC32ADG	MC74LCX14DR2G
MC74HC30ADR2G	MC74LCX14DR2G
MC74HC20ADR2G	MC74LCX14DR2G
MC74HC14ADR2G	MC74LCX14DR2G