



Final Product/Process Change Notification

Document #:FPCN25572X35

Issue Date:31 Jul 2024

Title of Change:	Update to FPCN25572X - To include the reliability data for ATEC TSSOP20 package parts for the Qualification of Vanguard Fab and Assembly related changes for Logic Parts (LCX244, LVX, VHC & VHCT devices only)
Proposed First Ship date:	07 Nov 2024 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 ChangKit.Mok@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:	Custom source on label will show TW instead of US/IL to indicate new die source from Vanguard. Changed material may be identified by plant code or lot code too.
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

Sites Affected:

onsemi Sites	External Foundry/Subcon Sites
onsemi Carmona, Philippines	Vanguard International Semiconductor, Taiwan
	ATEC - Automated Technology, Philippines

Description and Purpose:

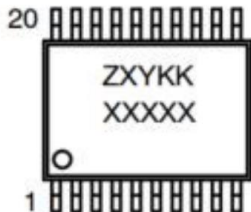
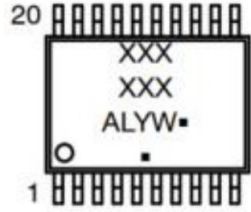
With reference to **FPCN25572X**, this FPCN presents the information solely for TSSOP20 the pertinent reliability data.

	From	To
Fab Site	Diodes Maine	Vanguard International

	From	To	
Assembly Site	ATEC	onsemi Carmona	ATEC
Test Site	ATEC	onsemi Carmona	ATEC
Bond Wire	0.9 mil Au	1 mil PCC	1 mil PCC
Mold Compound	MC HITACHI CEL800JF	MC G700LS	MC G700LS

Marking Changes

For specific marking change per device, please refer to the embedded excel file

	From	To
Marking Changes	 XXXXX = Device Code Z = ASSY Plant Code XY = Two Digit Date Code Format (Year & Week) KK = Two Digit Lot Run Traceability Code	 XXXXX = Specific Device Code A = Assembly Location L = Wafer Lot Y = Year of Production W = Work Week Number ■ or G = Pb-Free Package (Note: Microdot may be in either location)

NOTE: Attached are the detailed marking files.

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

Reliability Data Summary:

QV DEVICE NAME : NLV74HC244ADTR2G

RMS : O89401

PACKAGE : TSSOP20

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	-	0/231

QV DEVICE NAME : NLV74HC244ADTR2G

RMS : O89395

PACKAGE : TSSOP20

Test	Specification	Condition	Interval	Results
High Temperature Operating Life	JESD22-A108	Ta=125°C, 100 % max rated Vcc	1008 hrs	0/77
High Temperature Storage Life	JESD22-A103	Ta=150°C	1008 hrs	0/77
Preconditioning	J-STD-020 JESD-A113	MSL 1 @260°C, Pre TC, uHAST, HAST for surface mount pkgs only	-	0/231
Temperature Cycling	JESD22-A104	Ta= -65°C to +150°C	500 cyc	0/77
Highly Accelerated Stress Test	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/77
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/77
Resistance to Solder Heat	JESD22- B106	Ta = 265°C, 10 sec	-	0/10

Electrical Characteristics Summary:

74VHCxxx Devices – Maximum Ratings

Existing

Absolute Maximum Ratings (Note 1)

Supply Voltage (V _{CC})	-0.5V to +7.0V
DC Input Voltage (V _{IN})	-0.5V to +7.0V
DC Output Voltage (V _{OUT})	-0.5V to V _{CC} + 0.5V
Input Diode Current (I _{IK})	-20 mA
Output Diode Current (I _{OK})	±20 mA
DC Output Current (I _{OUT})	±25 mA
DC V _{CC} /GND Current (I _{CC})	±75 mA
Storage Temperature (T _{STG})	-65°C to +150°C
Lead Temperature (T _L)	
(Soldering, 10 seconds)	260°C

New

MAXIMUM RATINGS

Symbol	Parameter	Value	Unit
V _{CC}	DC Supply Voltage	-0.5 to +6.5	V
V _{IN}	DC Input Voltage	-0.5 to +6.5	V
V _{OUT}	DC Output Voltage	-0.5 to V _{CC} + 0.5	V
I _{IK}	DC Input Current, per Pin	±20	mA
I _{OUT}	DC Output Current, per Pin	±25	mA
I _{CC}	DC Supply Current, V _{CC} and GND Pins	±75	mA
I _{IK}	Input Clamp Current	-20	mA
I _{OK}	Output Clamp Current	±20	mA
T _{STG}	Storage Temperature Range	-65 to +150	°C
T _L	Lead Temperature, 1 mm from Case for 10 Seconds	260	°C
T _J	Junction Temperature under Bias	+150	°C
θ _{JA}	Thermal Resistance (Note 2)	150	°C/W
P _D	Power Dissipation in Still Air at 25°C	833	mW
MSL	Moisture Sensitivity	Level 1	
F _R	Flammability Rating	Oxygen Index: 28 to 34 UL 94 V-0 @ 0.574 in	
V _{ESD}	ESD Withstand Voltage (Note 3)	Human Body Model Charged Device Model	2000 N/A

74VHCTxxx Devices – Maximum Ratings

Existing

Absolute Maximum Ratings

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only.

Symbol	Parameter	Rating
V_{CC}	Supply Voltage	-0.5V to +7.0V
V_{IN}	DC Input Voltage	-0.5V to +7.0V
V_{OUT}	DC Output Voltage Note 2 Note 3	-0.5V to $V_{CC} + 0.5V$ -0.5V to +7.0V
I_{IK}	Input Diode Current	-20mA
I_{OK}	Output Diode Current ⁽⁴⁾	±20mA
I_{OUT}	DC Output Current	±25mA
I_{CC}	DC V_{CC} /GND Current	±75mA
T_{STG}	Storage Temperature	-65°C to +150°C
T_L	Lead Temperature (Soldering, 10 seconds)	260°C

New

MAXIMUM RATINGS

Symbol	Parameter	Value	Unit
V_{CC}	DC Supply Voltage	-0.5 to +6.5	V
V_{IN}	DC Input Voltage	-0.5 to +6.5	V
V_{OUT}	DC Output Voltage	Active Mode (High or Low State) Tri-state Mode (Note 2) Power-Off Mode ($V_{CC} = 0V$)	-0.5 to $V_{CC} + 0.5$ -0.5 to +6.5 -0.5 to +6.5
I_{IN}	DC Input Current, per Pin	±20	mA
I_{OUT}	DC Output Current, per Pin	±25	mA
I_{CC}	DC Supply Current, V_{CC} and GND Pins	±75	mA
I_{IK}	Input Clamp Current	-20	mA
I_{OK}	Output Clamp Current	-20	mA
T_{STG}	Storage Temperature Range	-65 to +150	°C
T_L	Lead Temperature, 1 mm from Case for 10 Seconds	260	°C
T_J	Junction Temperature under Bias	+150	°C
θ_{JA}	Thermal Resistance (Note 3)	150	°C/W
P_D	Power Dissipation in Still Air at 25°C	833	mW
MSL	Moisture Sensitivity	Level 1	
F_R	Flammability Rating	Oxygen Index: 28 to 34	UL 94 V-0 @ 0.574 in
V_{ESD}	ESD Withstand Voltage (Note 4)	Human Body Model Charged Device Model	2000 N/A

74LVxxx Devices – Maximum Ratings

Existing

Absolute Maximum Ratings^(Note 1)

Supply Voltage (V_{CC})	-0.5V to +7.0V
DC Input Diode Current (I_{IK})	-20 mA
$V_I = -0.5V$	-20 mA
DC Input Voltage (V_I)	-0.5V to 7V
DC Output Diode Current (I_{OK})	-20 mA
$V_O = -0.5V$	-20 mA
$V_O = V_{CC} + 0.5V$	+20 mA
DC Output Voltage (V_O)	-0.5V to $V_{CC} + 0.5V$
DC Output Source or Sink Current (I_O)	±25 mA
DC V_{CC} or Ground Current (I_{CC} or I_{GND})	±75 mA
Storage Temperature (T_{STG})	-65°C to +150°C
Power Dissipation	180 mW

New

MAXIMUM RATINGS

Symbol	Parameter	Value	Unit
V_{CC}	DC Supply Voltage	-0.5 to +6.5	V
V_{IN}	DC Input Voltage	-0.5 to +6.5	V
V_{OUT}	DC Output Voltage	-0.5 to $V_{CC} + 0.5$	V
I_{IN}	DC Input Current, per Pin	±20	mA
I_{OUT}	DC Output Current, per Pin	±25	mA
I_{CC}	DC Supply Current, V_{CC} and GND Pins	±75	mA
I_{IK}	Input Clamp Current	-20	mA
I_{OK}	Output Clamp Current	±20	mA
T_{STG}	Storage Temperature Range	-65 to +150	°C
T_L	Lead Temperature, 1 mm from Case for 10 Seconds	260	°C
T_J	Junction Temperature under Bias	+150	°C
θ_{JA}	Thermal Resistance (Note 2)	150	°C/W
P_D	Power Dissipation in Still Air at 25°C	833	mW
MSL	Moisture Sensitivity	Level 1	
F_R	Flammability Rating	Oxygen Index: 28 to 34	UL 94 V-0 @ 0.574 in
V_{ESD}	ESD Withstand Voltage (Note 3)	Human Body Model Charged Device Model	2000 N/A

74LCX244 Devices – Maximum Ratings

Existing

Absolute Maximum Ratings

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only.

Symbol	Parameter	Rating
V_{CC}	Supply Voltage	-0.5V to +7.0V
V_I	DC Input Voltage	-0.5V to +7.0V
V_O	DC Output Voltage	-0.5V to +7.0V
	Output in 3-STATE	-0.5V to +7.0V
	Output in HIGH or LOW State ⁽³⁾	-0.5V to $V_{CC} + 0.5V$
I_{IK}	DC Input Diode Current, $V_I < GND$	-50mA
I_{OK}	DC Output Diode Current	-50mA
	$V_O < GND$	-50mA
	$V_O > V_{CC}$	+50mA
I_O	DC Output Source/Sink Current	±50mA
I_{CC}	DC Supply Current per Supply Pin	±100mA
I_{OD}	DC Ground Current per Ground Pin	±100mA
T_{STG}	Storage Temperature	-65°C to +150°C

New

MAXIMUM RATINGS

Symbol	Parameter	Value	Unit
V_{CC}	DC Supply Voltage	-0.5 to +6.5	V
V_I	DC Input Voltage (Note 1)	-0.5 to +6.5	V
V_O	DC Output Voltage (Note 1)	-0.5 to $V_{CC} + 0.5$	V
	Active-Mode (High or Low State)	-0.5 to +6.5	
	Tri-State Mode	-0.5 to +6.5	
	Power-Down Mode ($V_{CC} = 0V$)	-0.5 to +6.5	
I_{IK}	DC Input Diode Current	-50	mA
I_{OK}	DC Output Diode Current	-50	mA
I_O	DC Output Source/Sink Current	±50	mA
I_{CC} or I_{OD}	DC Supply Current per Supply Pin or Ground Pin	±100	mA
T_{STG}	Storage Temperature Range	-65 to +150	°C
T_L	Lead Temperature, 1 mm from Case for 10 secs	260	°C
T_J	Junction Temperature Under Bias	+150	°C
θ_{JA}	Thermal Resistance (Note 2)	96	°C/W
	SOIC-20W	99	
	WQFN20	111	
	QFN20	150	
	TSSOP-20	833	
P_D	Power Dissipation in Still Air	1302	mW
	SOIC-20W	1256	
	WQFN20	1127	
	QFN20	833	
	TSSOP-20	833	
MSL	Moisture Sensitivity	Level 3	-
	SOIC-20W	Level 1	
	All Other Packages	Level 1	
F_R	Flammability Rating	Oxygen Index: 28 to 34	-
V_{ESD}	ESD Withstand Voltage (Note 3)	Human Body Model	V
	Charged Device Model	> 2000	
		N/A	

74LCX244 Devices – Recommended Operating Conditions

Existing

Recommended Operating Conditions⁽⁴⁾

The Recommended Operating Conditions table defines the conditions for actual device operation. Recommended operating conditions are specified to ensure optimal performance to the datasheet specifications. Fairchild does not recommend exceeding them or designing to absolute maximum ratings.

Symbol	Parameter	Min.	Max.	Units
V_{CC}	Supply Voltage			
	Operating	2.0	3.6	V
	Data Retention	1.5	3.6	
V_I	Input Voltage	0	5.5	V
V_O	Output Voltage			
	3-STATE	0	5.5	V
	HIGH or LOW State	0	V_{CC}	
I_{OH}/I_{OL}	Output Current			
	$V_{CC} = 3.0V-3.6V$		±24	mA
	$V_{CC} = 2.7V-3.0V$		±12	
	$V_{CC} = 2.3V-2.7V$		±8	
T_A	Free-Air Operating Temperature	-40	85	°C
$\Delta t / \Delta V$	Input Edge Rate, $V_{IN} = 0.8V-2.0V$, $V_{CC} = 3.0V$	0	10	ns/V

New

RECOMMENDED OPERATING CONDITIONS

Symbol	Parameter	Min	Typ	Max	Unit
V_{CC}	Supply Voltage				
	Operating	1.65	3.3	5.5	V
	Data Retention Only	1.5	3.3	5.5	
V_I	Digital Input Voltage	0	-	5.5	V
V_O	Output Voltage				
	Active Mode (High or Low State)	0	-	V_{CC}	V
	Tri-State Mode	0	-	5.5	
	Power Down Mode ($V_{CC} = 0V$)	0	-	5.5	
T_A	Operating Free-Air Temperature	-55	-	+125	°C
t_r, t_f	Input Rise or Fall Rate	0	-	20	ns/V
	$V_{CC} = 1.65V$ to $1.95V$	0	-	20	
	$V_{CC} = 2.3V$ to $2.7V$	0	-	20	
	V_{IN} from $0.8V$ to $2.0V$, $V_{CC} = 3.0V$	0	-	10	
	$V_{CC} = 4.5V$ to $5.5V$	0	-	5	

74LCX244 Devices – DC Electrical Characteristics

Existing

DC Electrical Characteristics

Symbol	Parameter	V _{CC} (V)	Conditions	T _A = -40°C to +85°C		Units
				Min.	Max.	
V _{IH}	HIGH Level Input Voltage	2.3-2.7		1.7		V
		2.7-3.6		2.0		
V _{IL}	LOW Level Input Voltage	2.3-2.7			0.7	V
		2.7-3.6			0.8	
V _{OH}	HIGH Level Output Voltage	2.3-3.6	I _{OH} = -100μA	V _{CC} - 0.2		V
		2.3	I _{OH} = -8mA	1.8		
		2.7	I _{OH} = -12mA	2.2		
		3.0	I _{OH} = -18mA	2.4		
			I _{OH} = -24mA	2.2		
V _{OL}	LOW Level Output Voltage	2.3-3.6	I _{OL} = 100μA		0.2	V
		2.3	I _{OL} = 8mA		0.6	
		2.7	I _{OL} = 12mA		0.4	
		3.0	I _{OL} = 16mA		0.4	
			I _{OL} = 24mA		0.55	
I _I	Input Leakage Current	2.3-3.6	0 ≤ V _I ≤ 5.5V		±5.0	μA
I _{OZ}	3-STATE Output Leakage	2.3-3.6	0 ≤ V _O ≤ 5.5V, V _I = V _{IH} or V _{IL}		±5.0	μA
I _{OFF}	Power-Off Leakage Current	0	V _I or V _O = 5.5V		10	μA
I _{CC}	Quiescent Supply Current	2.3-3.6	V _I = V _{CC} or GND, 3.6V ≤ V _I , V _O ≤ 5.5V ⁽⁵⁾		±10	μA
ΔI _{CC}	Increase in I _{CC} per Input	2.3-3.6	V _{IH} = V _{CC} - 0.6V		500	μA

New

DC ELECTRICAL CHARACTERISTICS

Symbol	Parameter	Conditions	V _{CC} (V)	T _A = -40 °C to +85°C		T _A = -55°C to +125°C		Unit
				Min	Max	Min	Max	
V _{IH}	High-Level Input Voltage		1.65 to 1.95	0.65 x V _{CC}		0.65 x V _{CC}		V
			2.3 to 2.7	1.7		1.7		
			2.7 to 3.6	2.0		2.0		
			4.5 to 5.5	0.7 x V _{CC}		0.7 x V _{CC}		
V _{IL}	Low-Level Input Voltage		1.65 to 1.95		0.35 x V _{CC}		0.35 x V _{CC}	V
			2.3 to 2.7		0.7		0.7	
			2.7 to 3.6		0.8		0.8	
			4.5 to 5.5		0.3 x V _{CC}		0.3 x V _{CC}	
V _{OH}	High-Level Output Voltage	V _I = V _{IH} or V _{IL} I _{OH} = -100 μA	1.65 to 5.5	V _{CC} - 0.1	-	V _{CC} - 0.1	-	V
			1.65	1.2	-	1.2	-	
			I _{OH} = -4 mA	2.3	1.8	-	1.8	
			I _{OH} = -8 mA	2.7	2.2	-	2.2	
			I _{OH} = -12 mA	3.0	2.4	-	2.4	
			I _{OH} = -16 mA	3.0	2.2	-	2.2	
			I _{OH} = -24 mA	4.5	3.8	-	3.8	
			I _{OH} = -32 mA					
V _{OL}	Low-Level Output Voltage	V _I = V _{IH} or V _{IL} I _{OL} = 100 μA	1.65 to 5.5	-	0.1	-	0.1	V
			I _{OL} = 4 mA	1.65	-	0.45	-	0.45
			I _{OL} = 8 mA	2.3	-	0.6	-	0.6
			I _{OL} = 12 mA	2.7	-	0.4	-	0.4
			I _{OL} = 16 mA	3.0	-	0.4	-	0.4
			I _{OL} = 24 mA	3.0	-	0.55	-	0.55
			I _{OL} = 32 mA	4.5	-	0.6	-	0.6
I _I	Input Leakage Current	V _I = 0 to 5.5 V	3.6	-	±5.0	-	±5.0	μA
I _{OZ}	3-State Output Leakage Current	V _I = V _{IH} or V _{IL} , V _O = 0 V to 5.5 V	3.6	-	±5.0	-	±5.0	μA
I _{OFF}	Power Off Leakage Current	V _I = 5.5 V or V _O = 5.5 V	0	-	10	-	10	μA
I _{CC}	Quiescent Supply Current	V _I = 5.5 V or GND	3.6	-	10	-	10	μA
ΔI _{CC}	Increase in I _{CC} per Input	V _{IH} = V _{CC} - 0.6 V	2.3 to 3.6	-	500	-	500	μA

74LCX244 Devices – AC Electrical Characteristic

Existing

AC Electrical Characteristics

Symbol	Parameter	T _A = -40°C to +85°C, R _L = 500Ω						Units
		V _{CC} = 3.3V ± 0.3V, C _L = 50pF		V _{CC} = 2.7V, C _L = 50pF		V _{CC} = 2.5V ± 0.2V, C _L = 30pF		
		Min.	Max.	Min.	Max.	Min.	Max.	
t _{PHL} , t _{PLH}	Propagation Delay, Data to Output	1.5	6.5	1.5	7.5	1.5	7.8	ns
t _{PZL} , t _{PZH}	Output Enable Time	1.5	8.0	1.5	9.0	1.5	10.0	ns
t _{PLZ} , t _{PHZ}	Output Disable Time	1.5	7.0	1.5	8.0	1.5	8.4	ns
t _{OSHL} , t _{OSLH}	Output to Output Skew ⁽⁵⁾		1.0					ns

New

AC ELECTRICAL CHARACTERISTICS

Symbol	Parameter	Test Condition	V _{CC} (V)	T _A = -40 °C to +85°C		T _A = -55°C to +125°C		Unit
				Min	Max	Min	Max	
t _{PHL} , t _{PLH}	Propagation Delay, D to O	See Figures 3 and 4	1.65 to 1.95	-	10.3	-	10.3	ns
			2.3 to 2.7	-	7.8	-	7.8	
			2.7	-	7.5	-	7.5	
			3.0 to 3.6	-	6.5	-	6.5	
			4.5 to 5.5	-	5.9	-	5.9	
t _{PHZ} , t _{PLZ}	Output Enable Time, OE to O	See Figures 3 and 4	1.65 to 1.95	-	13.0	-	13.0	ns
			2.3 to 2.7	-	10.0	-	10.0	
			2.7	-	9.0	-	9.0	
			3.0 to 3.6	-	8.0	-	8.0	
			4.5 to 5.5	-	7.3	-	7.3	
t _{PHL} , t _{PLH}	Output Disable Time, OE to O	See Figures 3 and 4	1.65 to 1.95	-	11.0	-	11.0	ns
			2.3 to 2.7	-	8.4	-	8.4	
			2.7	-	8.0	-	8.0	
			3.0 to 3.6	-	7.0	-	7.0	
			4.5 to 5.5	-	6.0	-	6.0	
t _{OSHL} , t _{OSLH}	Output to Output Skew (Note 5)		1.65 to 1.95	-	-	-	-	ns
			2.3 to 2.7	-	-	-	-	
			2.7	-	-	-	-	
			3.0 to 3.6	-	1.0	-	1.0	

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
74LVX573MTCX	NLV74HC244ADTR2G
74VHC541MTCX	NLV74HC244ADTR2G



Final Product/Process Change Notification

Document #:FPCN25572X35

Issue Date:31 Jul 2024

74LCX244MTCX	NLV74HC244ADTR2G
74VHCT244AMTCX	NLV74HC244ADTR2G
74LVX273MTCX	NLV74HC244ADTR2G
74VHC273MTCX	NLV74HC244ADTR2G
74VHC573MTCX	NLV74HC244ADTR2G
74LVX244MTCX	NLV74HC244ADTR2G
74LVX541MTCX	NLV74HC244ADTR2G
74VHC245MTCX	NLV74HC244ADTR2G
74VHC244MTCX	NLV74HC244ADTR2G
74VHC374MTCX	NLV74HC244ADTR2G
74VHCT574AMTCX	NLV74HC244ADTR2G
74VHC244MTC	NLV74HC244ADTR2G
74VHC541MTC	NLV74HC244ADTR2G
74VHC373MTCX	NLV74HC244ADTR2G
74VHC574MTCX	NLV74HC244ADTR2G
74LVX245MTCX	NLV74HC244ADTR2G
74LCX244MTC	NLV74HC244ADTR2G
74VHCT245AMTCX	NLV74HC244ADTR2G
74LVX373MTCX	NLV74HC244ADTR2G
74VHC574MTC	NLV74HC244ADTR2G
74VHCT573AMTCX	NLV74HC244ADTR2G
74VHC573MTC	NLV74HC244ADTR2G
74VHCT240AMTCX	NLV74HC244ADTR2G
74VHCT374AMTCX	NLV74HC244ADTR2G