



Title of Change:	Correction of Typos in Datasheet changes included in FPCNs per list below for VHC, HC, SZ, and WZ devices with Hysteresis.
Effective date:	02 Jul 2020
Contact information:	Contact your local ON Semiconductor Sales Office or logic.fpcn@onsemi.com
Type of notification:	This Product Bulletin is for notification purposes only. ON Semiconductor will proceed with implementation of this change upon publication of this Product Bulletin.
Change Category:	Datasheet Change
Change Sub-Category(s):	Datasheet/Product Doc change

Sites Affected:

ON Semiconductor Sites	External Foundry/Subcon Sites
None	None

Description and Purpose:

ON Semiconductor is updating its Datasheets for MC74HC1G14, VHC, SZ, and WZ families of devices to correct typo errors found after the new datasheet format changes were announced in the PCNs and in PBs.

For MC74HC1G14 Family:

Current Datasheet:

New Datasheet:

$I_{LATCHUP}$	Latchup Performance (Note 3)	SC-88A (NLV), 60T-28, SC-88A, SC-74A	±500 ±100	mA
---------------	------------------------------	--------------------------------------	--------------	----

$I_{LATCHUP}$	Latchup Performance (Note 3)	SC-88A (NLV), SC-88A, SC-74A	±500 ±100	mA
---------------	------------------------------	------------------------------	--------------	----

RECOMMENDED OPERATING CONDITIONS

Symbol	Parameter	Min	Max	Unit	
V_{CC}	DC Supply Voltage	2.0	6.0	V	
V_{IN}	DC Input Voltage	0.0	V_{CC}	V	
V_{OUT}	DC Output Voltage	0.0	V_{CC}	V	
T_A	Operating Temperature Range	-55	+125	°C	
t_r, t_f	Input Rise and Fall Time	SC-88A (NLV), TSOP-5 $V_{CC} = 2.0\text{ V}$ $V_{CC} = 3.0\text{ V}$ $V_{CC} = 4.5\text{ V}$ $V_{CC} = 6.0\text{ V}$	- - - -	No Limit No Limit No Limit No Limit	ns/V
		SC-88A, SC-74A $V_{CC} = 1.65\text{ V to }1.98\text{ V}$ $V_{CC} = 2.3\text{ V to }2.7\text{ V}$ $V_{CC} = 3.0\text{ V to }3.6\text{ V}$ $V_{CC} = 4.5\text{ V to }6.0\text{ V}$	- - - -	20 20 10 5	

RECOMMENDED OPERATING CONDITIONS

Symbol	Parameter	Min	Max	Unit	
V_{CC}	DC Supply Voltage	2.0	6.0	V	
V_{IN}	DC Input Voltage	0.0	V_{CC}	V	
V_{OUT}	DC Output Voltage	0.0	V_{CC}	V	
T_A	Operating Temperature Range	-55	+125	°C	
t_r, t_f	Input Rise and Fall Time	SC-88A (NLV), TSOP-5 $V_{CC} = 2.0\text{ V}$ $V_{CC} = 3.0\text{ V}$ $V_{CC} = 4.5\text{ V}$ $V_{CC} = 6.0\text{ V}$	- - - -	No Limit No Limit No Limit No Limit	ns/V
		SC-88A, SC-74A $V_{CC} = 2.3\text{ V to }2.7\text{ V}$ $V_{CC} = 3.0\text{ V to }3.6\text{ V}$ $V_{CC} = 4.5\text{ V to }6.0\text{ V}$	- - - -	No Limit No Limit No Limit	

I_{IN}	Input Leakage Current	$V_{IN} = 6.0\text{ V or GND}$	6.0	-	-	±0.1	-	±1.0	-	±1.0	µA
I_{CC}	Quiescent Supply Current	$V_{IN} = V_{CC}$ or GND	6.0	-	-	1.0	-	10	-	40	µA

I_{IN}	Input Leakage Current	$V_{IN} = 6.0\text{ V or GND}$	6.0	-	-	±0.1	-	±1.0	-	±1.0	µA
I_{CC}	Quiescent Supply Current	$V_{IN} = V_{CC}$ or GND	6.0	-	-	1.0	-	10	-	40	µA

*Guaranteed by design.

AC ELECTRICAL CHARACTERISTICS (Input $t_r = t_f = t$)

Symbol	Parameter	Test Conditions
t_{PLH} , t_{PHL}	Propagation Delay, Input A or B to $\frac{V_{CC}}{2}$	$V_{CC} = 5.0\text{ V}$, $C_L = 15\text{ pF}$ $V_{CC} = 2.0\text{ V}$, $C_L = 50\text{ pF}$ $V_{CC} = 3.0\text{ V}$ $V_{CC} = 4.5\text{ V}$ $V_{CC} = 6.0\text{ V}$

AC ELECTRICAL CHARACTERISTICS (Input $t_r = t_f = t$)

Symbol	Parameter	Test Conditions
t_{PLH} , t_{PHL}	Propagation Delay, Input A or B to Y	$V_{CC} = 5.0\text{ V}$, $C_L = 15\text{ pF}$ $V_{CC} = 2.0\text{ V}$, $C_L = 50\text{ pF}$ $V_{CC} = 3.0\text{ V}$ $V_{CC} = 4.5\text{ V}$ $V_{CC} = 6.0\text{ V}$

For MC74VHC1G14/MC74VHC1GT14 Family:

Current Datasheet:

New Datasheet:

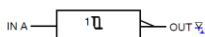


Figure 1. Logic Symbol

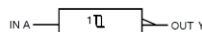


Figure 1. Logic Symbol



FUNCTION TABLE

A Input	V_{OUT} Output
L	H
H	L

FUNCTION TABLE

A Input	Y Output
L	H
H	L

MAXIMUM RATINGS

Symbol	Characteristics	Value	Unit
V_{CC}	DC Supply Voltage TSOP-5, SC-88A (NLV) SC-74A, SC-88A, UDFN6, SOT-553, SOT-953	-0.5 to +7.0 -0.5 to +6.5	V
V_{IN}	DC Input Voltage TSOP-5, SC-88A (NLV) SC-74A, SC-88A, UDFN6, SOT-553, SOT-953	-0.5 to +7.0 -0.5 to +6.5	V
V_{OUT}	DC Output Voltage TSOP-5, SC-88A (NLV) Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode ($V_{CC} = 0$ V)	-0.5 to $V_{CC} + 0.5$ -0.5 to +7.0 -0.5 to +7.0	V
	DC Output Voltage SC-74A, SC-88A, UDFN6, SOT-553, SOT-953 Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode ($V_{CC} = 0$ V)	-0.5 to $V_{CC} + 0.5$ -0.5 to +6.5 -0.5 to +6.5	V
I_{IK}	DC Input Diode Current $V_{IN} < GND$	-20	mA
I_{OK}	DC Output Diode Current $V_{OUT} < GND$	+20	mA
I_{OUI}	DC Output Source/Sink Current	+25	mA
I_{CC} or I_{GND}	DC Supply Current per Supply Pin or Ground Pin	+50	mA
T_{STG}	Storage Temperature Range	-65 to +150	°C

MAXIMUM RATINGS

Symbol	Characteristics	Value	Unit
V_{CC}	DC Supply Voltage TSOP-5, SC-88A (NLV) SC-74A, SC-88A, UDFN6, SOT-553, SOT-953	-0.5 to +7.0 -0.5 to +6.5	V
V_{IN}	DC Input Voltage TSOP-5, SC-88A (NLV) SC-74A, SC-88A, UDFN6, SOT-553, SOT-953	-0.5 to +7.0 -0.5 to +6.5	V
V_{OUT}	DC Output Voltage TSOP-5, SC-88A (NLV) Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode ($V_{CC} = 0$ V)	-0.5 to $V_{CC} + 0.5$ -0.5 to +7.0 -0.5 to +7.0	V
	DC Output Voltage SC-74A, SC-88A, UDFN6, SOT-553, SOT-953 Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode ($V_{CC} = 0$ V)	-0.5 to $V_{CC} + 0.5$ -0.5 to +6.5 -0.5 to +6.5	V
I_{IK}	DC Input Diode Current $V_{IN} < GND$	-20	mA
I_{OK}	DC Output Diode Current $V_{OUT} < GND$	-20	mA
I_{OUI}	DC Output Source/Sink Current	25	mA
I_{CC} or I_{GND}	DC Supply Current per Supply Pin or Ground Pin	50	mA
T_{STG}	Storage Temperature Range	-65 to +150	°C

RECOMMENDED OPERATING CONDITIONS

Symbol	Characteristics	Min	Max	Unit
V_{CC}	Positive DC Supply Voltage	2.0	5.5	V
V_{IN}	DC Input Voltage	0	5.5	V
V_{OUT}	DC Output Voltage TSOP-5, SC-88A (NLV)	0	V_{CC}	V
	DC Output Voltage SC-74A, SC-88A, UDFN6, SOT-553, SOT-953 Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode ($V_{CC} = 0$ V)	0	5.5 V_{CC} 5.5	V
T_A	Operating Temperature Range	-55	+125	°C
t_r, t_f	Input Rise and Fall Time TSOP-5, SC-88A (NLV) $V_{CC} = 3.0$ V to 3.6 V $V_{CC} = 4.5$ V to 5.5 V	0	+100 +20	ns/V
	Input Rise and Fall Time SC-74A, SC-88A, UDFN6, SOT-553, SOT-953 $V_{CC} = 4.5$ V to 5.5 V $V_{CC} = 2.3$ V to 2.7 V $V_{CC} = 3.0$ V to 3.6 V $V_{CC} = 4.5$ V to 5.5 V	0	+20 +20 +10 +10	ns/V

RECOMMENDED OPERATING CONDITIONS

Symbol	Characteristics	Min	Max	Unit
V_{CC}	Positive DC Supply Voltage	2.0	5.5	V
V_{IN}	DC Input Voltage	0	5.5	V
V_{OUT}	DC Output Voltage TSOP-5, SC-88A (NLV)	0	V_{CC}	V
	DC Output Voltage SC-74A, SC-88A, UDFN6, SOT-553, SOT-953 Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode ($V_{CC} = 0$ V)	0	V_{CC} 5.5 5.5	V
T_A	Operating Temperature Range	-55	+125	°C
t_r, t_f	Input Rise and Fall Time TSOP-5, SC-88A (NLV) $V_{CC} = 3.0$ V to 3.6 V $V_{CC} = 4.5$ V to 5.5 V	0	No Limit No Limit	ns/V
	Input Rise and Fall Time SC-74A, SC-88A, UDFN6, SOT-553, SOT-953 $V_{CC} = 2.3$ V to 2.7 V $V_{CC} = 3.0$ V to 3.6 V $V_{CC} = 4.5$ V to 5.5 V	0	No Limit No Limit No Limit	ns/V

I_{IN}	Input Leakage Current $V_{IN} = 5.5$ V or GND	1.65 to 5.5	-	-	$\pm 0.1^{\pm}$
I_{OFF}	Power Off Leakage Current $V_{IN} = 5.5$ V or $V_{OUT} = 5.5$ V	0	-	-	1.0
I_{CC}	Quiescent Supply Current $V_{IN} = V_{CC}$ or GND	5.5	-	-	1.0

I_{IN}	Input Leakage Current $V_{IN} = 5.5$ V or GND	1.65 to 5.5	-	-	± 0.1
I_{OFF}	Power Off Leakage Current $V_{IN} = 5.5$ V or $V_{OUT} = 5.5$ V	0	-	-	1.0
I_{CC}	Quiescent Supply Current $V_{IN} = V_{CC}$ or GND	5.5	-	-	1.0

[±]Guaranteed by design.

For NL17SZ14 Family:

Current Datasheet:

New Datasheet:

FUNCTION TABLE

Input	Output
A	V_{OUT}
L	H
H	L

FUNCTION TABLE

Input	Output
A	Y
L	H
H	L

MAXIMUM RATINGS

Symbol	Characteristics	Value	Unit
V_{CC}	DC Supply Voltage UDFN6, SOT-553, SC-88A (NLV) SC-74A, SC-88A, SOT-953	-0.5 to +7.0 -0.5 to +6.5	V
V_{IN}	DC Input Voltage UDFN6, SOT-553, SC-88A (NLV) SC-74A, SC-88A, SOT-953	-0.5 to +7.0 -0.5 to +6.5	V
V_{OUT}	DC Output Voltage SC-88A (NLV), UDFN6, SOT-553 Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode ($V_{CC} = 0$ V)	-0.5 to $V_{CC} + 0.5$ -0.5 to +7.0 -0.5 to +7.0	V
	DC Output Voltage SC-74A, SC-88A, SOT-953 Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode ($V_{CC} = 0$ V)	-0.5 to $V_{CC} + 0.5$ -0.5 to +6.5 -0.5 to +6.5	V
I_{IK}	DC Input Diode Current $V_{IN} < GND$	-50	mA
I_{OK}	DC Output Diode Current $V_{OUT} < GND$	+50	mA

MAXIMUM RATINGS

Symbol	Characteristics	Value	Unit
V_{CC}	DC Supply Voltage UDFN6, SOT-553, SC-88A (NLV) SC-74A, SC-88A, SOT-953	-0.5 to +7.0 -0.5 to +6.5	V
V_{IN}	DC Input Voltage UDFN6, SOT-553, SC-88A (NLV) SC-74A, SC-88A, SOT-953	-0.5 to +7.0 -0.5 to +6.5	V
V_{OUT}	DC Output Voltage SC-88A (NLV), UDFN6, SOT-553 Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode ($V_{CC} = 0$ V)	-0.5 to $V_{CC} + 0.5$ -0.5 to +7.0 -0.5 to +7.0	V
	DC Output Voltage SC-74A, SC-88A, SOT-953 Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode ($V_{CC} = 0$ V)	-0.5 to $V_{CC} + 0.5$ -0.5 to +6.5 -0.5 to +6.5	V
I_{IK}	DC Input Diode Current $V_{IN} < GND$	-50	mA
I_{OK}	DC Output Diode Current $V_{OUT} < GND$	-50	mA



RECOMMENDED OPERATING CONDITIONS

Symbol	Characteristic	Min	Max	Unit
V _{CC}	Positive DC Supply Voltage	1.65	5.5	V
V _{IN}	DC Input Voltage	0	5.5	V
V _{OUT}	DC Output Voltage	Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V)	0 V _{CC} 5.5	V
T _A	Operating Temperature Range	-55	+125	°C
t _r , t _f	Input Rise and Fall Time (SC-88A (NLV), UDFN6, SOT-553)	V _{CC} = 3.0 V to 3.6 V V _{CC} = 4.5 V to 5.5 V	0 -100 -20	ns/V
	Input Rise and Fall Time (SC-74A, SC-88A, SOT-953)	V _{CC} = 1.65 V to 1.95 V V _{CC} = 2.3 V to 2.7 V V _{CC} = 3.0 V to 3.6 V V _{CC} = 4.5 V to 5.5 V	0 -20 -10 -5	ns/V

I _{IN}	Input Leakage Current	V _{IN} = 5.5 V or GND	1.65 to 5.5	-	-	±0.1*	-	±1.0	µA
I _{OFF}	Power Off Leakage Current	V _{IN} = 5.5 V or V _{OUT} = 5.5 V	0	-	-	1.0	-	10	µA
I _{CC}	Quiescent Supply Current	V _{IN} = V _{CC} or GND	5.5	-	-	1.0	-	10	µA

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.
*Guaranteed-by-design.

RECOMMENDED OPERATING CONDITIONS

Symbol	Characteristic	Min	Max	Unit
V _{CC}	Positive DC Supply Voltage	1.65	5.5	V
V _{IN}	DC Input Voltage	0	5.5	V
V _{OUT}	DC Output Voltage	Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V)	0 V _{CC} 5.5	V
T _A	Operating Temperature Range	-55	+125	°C
t _r , t _f	Input Rise and Fall Time (SC-88A (NLV), UDFN6, SOT-553)	V _{CC} = 3.0 V to 3.6 V V _{CC} = 4.5 V to 5.5 V	0 No Limit No Limit	ns/V
	Input Rise and Fall Time (SC-74A, SC-88A, SOT-953)	V _{CC} = 1.65 V to 1.95 V V _{CC} = 2.3 V to 2.7 V V _{CC} = 3.0 V to 3.6 V V _{CC} = 4.5 V to 5.5 V	0 No Limit No Limit No Limit	ns/V

I _{IN}	Input Leakage Current	V _{IN} = 5.5 V or GND	1.65 to 5.5	-	-	±0.1	-	±1.0	µA
I _{OFF}	Power Off Leakage Current	V _{IN} = 5.5 V or V _{OUT} = 5.5 V	0	-	-	1.0	-	10	µA
I _{CC}	Quiescent Supply Current	V _{IN} = V _{CC} or GND	5.5	-	-	1.0	-	10	µA

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

For NL17SZ17 Family:

Current Datasheet:

The NL17SZ17 is a single ~~Non~~ Noninverting Schmitt Trigger Buffer in tiny footprint packages.

New Datasheet:

The NL17SZ17 is a single Schmitt Trigger Buffer in tiny footprint packages

MAXIMUM RATINGS

Symbol	Characteristic	Value	Unit	
V _{CC}	DC Supply Voltage	UDFN6, SOT-553, SC-88A (NLV), SC-74A, SC-88A, SOT-953	-0.5 to +7.0 -0.5 to +6.5	V
V _{IN}	DC Input Voltage	UDFN6, SOT-553, SC-88A (NLV), SC-74A, SC-88A, SOT-953	-0.5 to +7.0 -0.5 to +6.5	V
V _{OUT}	DC Output Voltage	Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V)	-0.5 to V _{CC} + 0.5 -0.5 to +7.0 -0.5 to +7.0	V
	DC Output Voltage	Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V)	-0.5 to V _{CC} + 0.5 -0.5 to +6.5 -0.5 to +6.5	V
I _{IK}	DC Input Diode Current	V _{IN} < GND	-50	mA
I _{OK}	DC Output Diode Current	V _{OUT} < GND	+60	mA

RECOMMENDED OPERATING CONDITIONS

Symbol	Characteristic	Min	Max	Unit
V _{CC}	Positive DC Supply Voltage	1.65	5.5	V
V _{IN}	DC Input Voltage	0	5.5	V
V _{OUT}	DC Output Voltage	Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V)	0 V _{CC} 5.5	V
T _A	Operating Temperature Range	-55	+125	°C
t _r , t _f	Input Rise and Fall Time (SC-88A (NLV), UDFN6, SOT-553)	V _{CC} = 3.0 V to 3.6 V V _{CC} = 4.5 V to 5.5 V	0 -100 -20	ns/V
	Input Rise and Fall Time (SC-74A, SC-88A, SOT-953)	V _{CC} = 1.65 V to 1.95 V V _{CC} = 2.3 V to 2.7 V V _{CC} = 3.0 V to 3.6 V V _{CC} = 4.5 V to 5.5 V	0 -20 -10 -5	ns/V

I _{IN}	Input Leakage Current	V _{IN} = 5.5 V or GND	1.65 to 5.5	-	-	±0.1*	-	±1.0	µA
I _{OFF}	Power Off Leakage Current	V _{IN} = 5.5 V or V _{OUT} = 5.5 V	0	-	-	1.0	-	10	µA
I _{CC}	Quiescent Supply Current	V _{IN} = V _{CC} or GND	5.5	-	-	1.0	-	10	µA

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.
*Guaranteed-by-design.

MAXIMUM RATINGS

Symbol	Characteristic	Value	Unit	
V _{CC}	DC Supply Voltage	UDFN6, SOT-553, SC-88A (NLV), SC-74A, SC-88A, SOT-953	-0.5 to +7.0 -0.5 to +6.5	V
V _{IN}	DC Input Voltage	UDFN6, SOT-553, SC-88A (NLV), SC-74A, SC-88A, SOT-953	-0.5 to +7.0 -0.5 to +6.5	V
V _{OUT}	DC Output Voltage	Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V)	-0.5 to V _{CC} + 0.5 -0.5 to +7.0 -0.5 to +7.0	V
	DC Output Voltage	Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V)	-0.5 to V _{CC} + 0.5 -0.5 to +6.5 -0.5 to +6.5	V
I _{IK}	DC Input Diode Current	V _{IN} < GND	-50	mA
I _{OK}	DC Output Diode Current	V _{OUT} < GND	-50	mA

RECOMMENDED OPERATING CONDITIONS

Symbol	Characteristic	Min	Max	Unit
V _{CC}	Positive DC Supply Voltage	1.65	5.5	V
V _{IN}	DC Input Voltage	0	5.5	V
V _{OUT}	DC Output Voltage	Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V)	0 V _{CC} 5.5	V
T _A	Operating Temperature Range	-55	+125	°C
t _r , t _f	Input Rise and Fall Time (SC-88A (NLV), UDFN6, SOT-553)	V _{CC} = 3.0 V to 3.6 V V _{CC} = 4.5 V to 5.5 V	0 No Limit No Limit	ns/V
	Input Rise and Fall Time (SC-74A, SC-88A, SOT-953)	V _{CC} = 1.65 V to 1.95 V V _{CC} = 2.3 V to 2.7 V V _{CC} = 3.0 V to 3.6 V V _{CC} = 4.5 V to 5.5 V	0 No Limit No Limit No Limit	ns/V

I _{IN}	Input Leakage Current	V _{IN} = 5.5 V or GND	1.65 to 5.5	-	-	±0.1	-	±1.0	µA
I _{OFF}	Power Off Leakage Current	V _{IN} = 5.5 V or V _{OUT} = 5.5 V	0	-	-	1.0	-	10	µA
I _{CC}	Quiescent Supply Current	V _{IN} = V _{CC} or GND	5.5	-	-	1.0	-	10	µA

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.



For NL27WZ14 Family:

Current Datasheet:

New Datasheet:

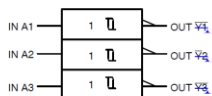


Figure 1. Logic Symbol

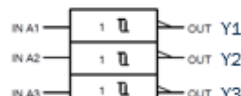
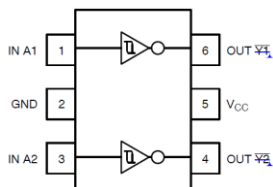
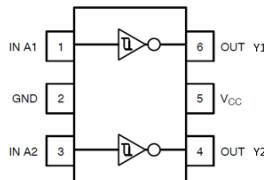


Figure 1. Logic Symbol



(SC-88/SC-74/TSOP-6)



(SC-88/SC-74/TSOP-6)

MAXIMUM RATINGS				
Symbol	Characteristics		Value	Units
V _{CC}	DC Supply Voltage	SC-88 (NLV) SC-88, SC-74, TSOP-6, UDFN6	-0.5 to +7.0 -0.5 to +6.5	V
V _{IN}	DC Input Voltage	SC-88 (NLV) SC-88, SC-74, TSOP-6, UDFN6	-0.5 to +7.0 -0.5 to +6.5	V
V _{OUT}	DC Output Voltage SC-88 (NLV)	Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V)	-0.5 to V _{CC} + 0.5 -0.5 to +7.0 -0.5 to +7.0	V
	DC Output Voltage SC-88, SC-74, TSOP-6, UDFN6	Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V)	-0.5 to V _{CC} + 0.5 -0.5 to +6.5 -0.5 to +6.5	V
I _{IK}	DC Input Diode Current, V _{IN} < GND		-50	mA
I _{OK}	DC Output Diode Current, V _{OUT} < GND		+60	mA

MAXIMUM RATINGS				
Symbol	Characteristics		Value	Units
V _{CC}	DC Supply Voltage	SC-88 (NLV) SC-88, SC-74, TSOP-6, UDFN6	-0.5 to +7.0 -0.5 to +6.5	V
V _{IN}	DC Input Voltage	SC-88 (NLV) SC-88, SC-74, TSOP-6, UDFN6	-0.5 to +7.0 -0.5 to +6.5	V
V _{OUT}	DC Output Voltage SC-88 (NLV)	Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V)	-0.5 to V _{CC} + 0.5 -0.5 to +7.0 -0.5 to +7.0	V
	DC Output Voltage SC-88, SC-74, TSOP-6, UDFN6	Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V)	-0.5 to V _{CC} + 0.5 -0.5 to +6.5 -0.5 to +6.5	V
I _{IK}	DC Input Diode Current, V _{IN} < GND		-50	mA
I _{OK}	DC Output Diode Current, V _{OUT} < GND		-50	mA

For NL27WZ17 Family:

Current Datasheet:

New Datasheet:



Figure 1. Logic Symbol



Figure 1. Logic Symbol

MAXIMUM RATINGS				
Symbol	Characteristics		Value	Units
V _{CC}	DC Supply Voltage	SC-88 (NLV) SC-88, SC-74, TSOP-6, UDFN6	-0.5 to +7.0 -0.5 to +6.5	V
V _{IN}	DC Input Voltage	SC-88 (NLV) SC-88, SC-74, TSOP-6, UDFN6	-0.5 to +7.0 -0.5 to +6.5	V
V _{OUT}	DC Output Voltage SC-88 (NLV)	Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V)	-0.5 to V _{CC} + 0.5 -0.5 to +7.0 -0.5 to +7.0	V
	DC Output Voltage SC-88, SC-74, TSOP-6, UDFN6	Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V)	-0.5 to V _{CC} + 0.5 -0.5 to +6.5 -0.5 to +6.5	V
I _{IK}	DC Input Diode Current, V _{IN} < GND		-50	mA
I _{OK}	DC Output Diode Current, V _{OUT} < GND		+60	mA

MAXIMUM RATINGS				
Symbol	Characteristics		Value	Units
V _{CC}	DC Supply Voltage	SC-88 (NLV) SC-88, SC-74, TSOP-6, UDFN6	-0.5 to +7.0 -0.5 to +6.5	V
V _{IN}	DC Input Voltage	SC-88 (NLV) SC-88, SC-74, TSOP-6, UDFN6	-0.5 to +7.0 -0.5 to +6.5	V
V _{OUT}	DC Output Voltage SC-88 (NLV)	Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V)	-0.5 to V _{CC} + 0.5 -0.5 to +7.0 -0.5 to +7.0	V
	DC Output Voltage SC-88, SC-74, TSOP-6, UDFN6	Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V)	-0.5 to V _{CC} + 0.5 -0.5 to +6.5 -0.5 to +6.5	V
I _{IK}	DC Input Diode Current, V _{IN} < GND		-50	mA
I _{OK}	DC Output Diode Current, V _{OUT} < GND		-50	mA

ORDERING INFORMATION

Device	Package	Specific Device Code	Pin1 Orientation (See below)	Shipping ¹
NL27WZ17DFT2G	SC-88	MX	G4	3000 / Tape & Reel
NL27WZ17DFT2G*	SC-88	MX	G4	3000 / Tape & Reel

ORDERING INFORMATION

Device	Package	Specific Device Code	Pin1 Orientation (See Below)	Shipping ¹
NL27WZ17DFT2G	SC-88	MX	G4	3000 / Tape & Reel
NL27WZ17DFT2G*	SC-88	MX	G4	3000 / Tape & Reel



For NL37WZ14 Family:

Current Datasheet:

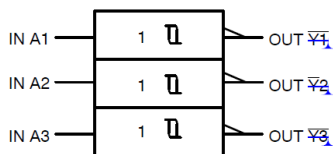


Figure 1. Logic Symbol

FUNCTION TABLE

A Input	\overline{Y} Output
L	H
H	L

RECOMMENDED OPERATING CONDITIONS

Symbol	Characteristics	Min	Max	Unit
V_{CC}	Positive DC Supply Voltage	1.65	5.5	V
V_{IN}	DC Input Voltage	0	5.5	V
V_{OUT}	DC Output Voltage	0	V_{CC}	V
	Active-Mode (High or Low State)	0	5.5	
	Tri-State Mode (Note 1)	0	5.5	
	Power-Down Mode ($V_{CC} = 0$ V)	0	5.5	
T_A	Operating Temperature Range	-55	+125	°C
t_r, t_f	Input Rise and Fall Time	0	-20	ns/V
	$V_{CC} = 1.65$ V to 1.95 V	0	-20	
	$V_{CC} = 2.3$ V to 2.7 V	0	-10	
	$V_{CC} = 3.0$ V to 3.6 V	0	-10	
	$V_{CC} = 4.5$ V to 5.5 V	0	-5	

New Datasheet:

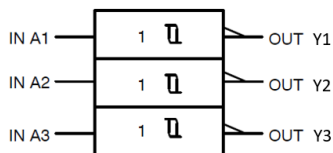


Figure 1. Logic Symbol

FUNCTION TABLE

A Input	Y Output
L	H
H	L

RECOMMENDED OPERATING CONDITIONS

Symbol	Characteristics	Min	Max	Unit
V_{CC}	Positive DC Supply Voltage	1.65	5.5	V
V_{IN}	DC Input Voltage	0	5.5	V
V_{OUT}	DC Output Voltage	0	V_{CC}	V
	Active-Mode (High or Low State)	0	5.5	
	Tri-State Mode (Note 1)	0	5.5	
	Power-Down Mode ($V_{CC} = 0$ V)	0	5.5	
T_A	Operating Temperature Range	-55	+125	°C
t_r, t_f	Input Rise and Fall Time	0	No Limit	ns/V
	$V_{CC} = 1.65$ V to 1.95 V	0	No Limit	
	$V_{CC} = 2.3$ V to 2.7 V	0	No Limit	
	$V_{CC} = 3.0$ V to 3.6 V	0	No Limit	
	$V_{CC} = 4.5$ V to 5.5 V	0	No Limit	

For NL37WZ16 Family:

Current Datasheet:

The NL37WZ16 is a high performance buffer with inputs operating from a 1.65 V to 5.5 V supply.

Features

- Designed for 1.65V to 5.5V V_{CC} Operation
- 2.7 ns t_{PD} at $V_{CC} = 5$ V (Typ)

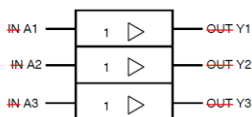


Figure 1. Logic Symbol

New Datasheet:

The NL37WZ16 is a high performance triple buffer with inputs operating from a 1.65 V to 5.5 V supply.

Features

- Designed for 1.65V to 5.5V V_{CC} Operation
- 2.4 ns t_{PD} at $V_{CC} = 5$ V (Typ)

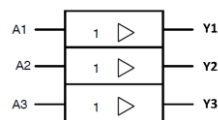
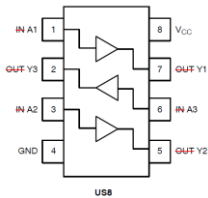


Figure 1. Logic Symbol

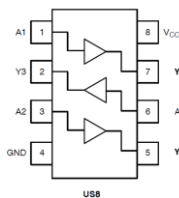


FUNCTION TABLE

A Input	Y Output
L	L
H	H

DEVICE ORDERING INFORMATION

Device	Packages	Specific Device Code	Pin 1 Orientation (See below)	Shipping [†]
NL37WZ16USG	US8	L1	Q4	3000 / Tape & Reel
NLV37WZ16USG* (In Development)	US8	L1	Q4	3000 / Tape & Reel



FUNCTION TABLE

A Input	Y Output
L	L
H	H

DEVICE ORDERING INFORMATION

Device	Packages	Specific Device Code	Pin 1 Orientation (See below)	Shipping [†]
NL37WZ16USG	US8	LR	Q4	3000 / Tape & Reel
NLV37WZ16USG* (In Development)	US8	LR	Q4	3000 / Tape & Reel

For NL37WZ17 Family:

Current Datasheet:

The NL37WZ17 is a high performance buffer with inputs operating from a 1.65 V to 5.5 V supply.

Features

- Designed for 1.65V to 5.5V V_{CC} Operation
- 2.7 ns tPD at $V_{CC} = 5V$ (Typ)

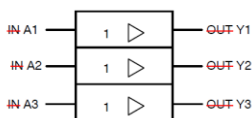
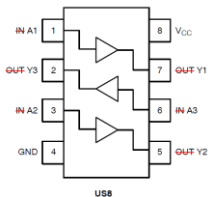


Figure 1. Logic Symbol



FUNCTION TABLE

A Input	Y Output
L	L
H	H

DEVICE ORDERING INFORMATION

Device	Packages	Specific Device Code	Pin 1 Orientation (See Below)	Shipping [†]
NL37WZ17USG	US8	LA	Q4	3000 / Tape & Reel
NLV37WZ17USG	US8	LA	Q4	3000 / Tape & Reel

New Datasheet:

The NL37WZ17 is a high performance triple buffer with inputs operating from a 1.65 V to 5.5 V supply.

Features

- Designed for 1.65V to 5.5V V_{CC} Operation
- 2.4 ns tPD at $V_{CC} = 5V$ (Typ)

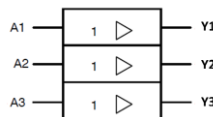
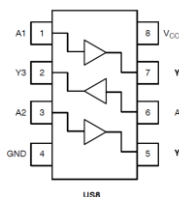


Figure 1. Logic Symbol



FUNCTION TABLE

A Input	Y Output
L	L
H	H

DEVICE ORDERING INFORMATION

Device	Packages	Specific Device Code	Pin 1 Orientation (See Below)	Shipping [†]
NL37WZ17USG	US8	LX	Q4	3000 / Tape & Reel
NLV37WZ17USG	US8	LX	Q4	3000 / Tape & Reel

**List of Affected Standard 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**](#).

MC74HC1G14DBVT1G	MC74HC1G14DFT1G	MC74HC1G14DFT2G
MC74HC1G14DTT1G	MC74HC1G14MX1TCG	MC74VHC1G14DBVT1G
MC74VHC1G14DFT1G	MC74VHC1G14MU2TCG	NL27WZ14MU1TCG
NL27WZ14MU3TCG	NL27WZ17DFT2G	NL27WZ17MU1TCG
NL27WZ17MU3TCG	NL37WZ14MU3TCG	NL37WZ14USG
NL37WZ16USG	NL37WZ17USG	MC74VHC1G14DFT2G
MC74VHC1G14P5T5G	MC74VHC1G14DTT1G	MC74VHC1GT14DBVT1G
MC74VHC1GT14MU1TCG	MC74VHC1GT14MU2TCG	MC74VHC1GT14MU3TCG
NL17SZ14DBVT1G	NL17SZ14DFT2G	NL17SZ14P5T5G
NL17SZ14XV5T2G	NL17SZ17DBVT1G	NL17SZ17DFT2G
NL17SZ17P5T5G	NL17SZ17XV5T2G	NL27WZ14DBVT1G
NL27WZ14DFT2G	NL27WZ14DTT1G	NL27WZ17DBVT1G

Japanese translation of the notification starts here.
通知の日本語訳はここから始まります。

Note: The Japanese version is for reference only. In case of any differences between the English and Japanese version, the English version shall control.

注：日本語版は参照用です。英語版と日本語版の違いがある場合は、英語版が優先されます。



変更件名:	ヒステリシス付き VHC、HC、SZ、および WZ 製品の以下のリストの FPCN に含まれるデータシートの変更の誤植の修正
発効日:	02 Jul 2020
連絡先情報:	現地のオン・セミコンダクター営業所または logic.fpcn@onsemi.com にお問い合わせください。
通知種別:	本製品速報は通知目的のみのものです。オン・セミコンダクターは本製品速報の発行により本変更を実行します。
変更カテゴリ:	データシートの変更
変更サブカテゴリ:	データシート/製品ドキュメントの変更

影響を受ける拠点:

オン・セミコンダクター拠点:

外部製造工場 / 下請業者拠点:

None

None

説明および目的:

オン・セミコンダクターは、MC74HC1G14、VHC、SZ、および WZ 製品ファミリのデータシートを更新して、PCN および PB で新しいデータシートフォーマットの変更がアナウンスされた後に見つかった誤植を修正します。

MC74HC1G14 ファミリの場合:

現在のデータシート:

新しいデータシート:

$I_{LATCHUP}$	Latchup Performance (Note 3)	SC-88A (NLV), SOT-23 SC-88A, SC-74A		±500 ±100	mA
---------------	------------------------------	--	--	--------------	----

$I_{LATCHUP}$	Latchup Performance (Note 3)	SC-88A (NLV) SC-88A, SC-74A		±500 ±100	mA
---------------	------------------------------	--------------------------------	--	--------------	----

RECOMMENDED OPERATING CONDITIONS

Symbol	Parameter	Min	Max	Unit	
V_{CC}	DC Supply Voltage	2.0	6.0	V	
V_{IH}	DC Input Voltage	0.0	V_{CC}	V	
V_{OL}	DC Output Voltage	0.0	V_{CC}	V	
T_A	Operating Temperature Range	-55	+125	°C	
t_r, t_f	Input Rise and Fall Time	SC-88A (NLV), TSOP-5 $V_{CC} = 2.0\text{ V}$ $V_{CC} = 3.0\text{ V}$ $V_{CC} = 4.5\text{ V}$ $V_{CC} = 6.0\text{ V}$	- - - -	No Limit No Limit No Limit No Limit	ns/V
	Input Rise and Fall Time	SC-88A, SC-74A $V_{CC} = 1.65\text{ V to }1.95\text{ V}$ $V_{CC} = 2.3\text{ V to }2.7\text{ V}$ $V_{CC} = 3.0\text{ V to }3.6\text{ V}$ $V_{CC} = 4.5\text{ V to }6.0\text{ V}$	- - - -	20 20 10 5	

RECOMMENDED OPERATING CONDITIONS

Symbol	Parameter	Min	Max	Unit	
V_{CC}	DC Supply Voltage	2.0	6.0	V	
V_{IH}	DC Input Voltage	0.0	V_{CC}	V	
V_{OL}	DC Output Voltage	0.0	V_{CC}	V	
T_A	Operating Temperature Range	-55	+125	°C	
t_r, t_f	Input Rise and Fall Time	SC-88A (NLV), TSOP-5 $V_{CC} = 2.0\text{ V}$ $V_{CC} = 3.0\text{ V}$ $V_{CC} = 4.5\text{ V}$ $V_{CC} = 6.0\text{ V}$	- - - -	No Limit No Limit No Limit No Limit	ns/V
	Input Rise and Fall Time	SC-88A, SC-74A $V_{CC} = 2.3\text{ V to }2.7\text{ V}$ $V_{CC} = 3.0\text{ V to }3.6\text{ V}$ $V_{CC} = 4.5\text{ V to }6.0\text{ V}$	- - - -	No Limit No Limit No Limit	

I_{IN}	Input Leakage Current	$V_{IH} = 6.0\text{ V}$ or GND	6.0	-	-	±0.1 *	-	±1.0	-	±1.0	µA
I_{CC}	Quiescent Supply Current	$V_{IH} = V_{CC}$ or GND	6.0	-	-	1.0	-	10	-	40	µA

*Quarantined by design.

I_{IN}	Input Leakage Current	$V_{IH} = 6.0\text{ V}$ or GND	6.0	-	-	±0.1	-	±1.0	-	±1.0	µA
I_{CC}	Quiescent Supply Current	$V_{IH} = V_{CC}$ or GND	6.0	-	-	1.0	-	10	-	40	µA

AC ELECTRICAL CHARACTERISTICS (Input $t_r = t_f = 1$)

Symbol	Parameter	Test Conditions
t_{PLH} , t_{PHL}	Propagation Delay, Input A or B to V_O	$V_{CC} = 5.0\text{ V}$, $C_L = 15\text{ pF}$ $V_{CC} = 2.0\text{ V}$, $C_L = 50\text{ pF}$ $V_{CC} = 3.0\text{ V}$ $V_{CC} = 4.5\text{ V}$ $V_{CC} = 6.0\text{ V}$

AC ELECTRICAL CHARACTERISTICS (Input $t_r = t_f = 1$)

Symbol	Parameter	Test Conditions
t_{PLH} , t_{PHL}	Propagation Delay, Input A or B to Y	$V_{CC} = 5.0\text{ V}$, $C_L = 15\text{ pF}$ $V_{CC} = 2.0\text{ V}$, $C_L = 50\text{ pF}$ $V_{CC} = 3.0\text{ V}$ $V_{CC} = 4.5\text{ V}$ $V_{CC} = 6.0\text{ V}$



MC74VHC1G14 / MC74VHC1GT14 ファミリの場合:

現在のデータシート:

新しいデータシート:

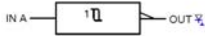


Figure 1. Logic Symbol

FUNCTION TABLE	
A Input	Y Output
L	H
H	L

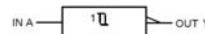


Figure 1. Logic Symbol

FUNCTION TABLE	
A Input	Y Output
L	H
H	L

MAXIMUM RATINGS

Symbol	Characteristics	Value	Unit
V _{CC}	DC Supply Voltage TSOP-5, SC-88A (NLV) SC-74A, SC-88A, UDFN6, SOT-553, SOT-953	-0.5 to +7.0 -0.5 to +6.5	V
V _{IN}	DC Input Voltage TSOP-5, SC-88A (NLV) SC-74A, SC-88A, UDFN6, SOT-553, SOT-953	-0.5 to +7.0 -0.5 to +6.5	V
V _{OUT}	DC Output Voltage TSOP-5, SC-88A (NLV) Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V)	-0.5 to V _{CC} + 0.5 -0.5 to +7.0 -0.5 to +7.0	V
I _{IK}	DC Input Diode Current V _{IN} < GND	-20	mA
I _{OK}	DC Output Diode Current V _{OUT} < GND	-20	mA
I _{OUT}	DC Output Source/Sink Current	±24.5	mA
I _{CC} or I _{QND}	DC Supply Current per Supply Pin or Ground Pin	±26	mA
T _{STG}	Storage Temperature Range	-65 to +150	°C

MAXIMUM RATINGS

Symbol	Characteristics	Value	Unit
V _{CC}	DC Supply Voltage TSOP-5, SC-88A (NLV) SC-74A, SC-88A, UDFN6, SOT-553, SOT-953	-0.5 to +7.0 -0.5 to +6.5	V
V _{IN}	DC Input Voltage TSOP-5, SC-88A (NLV) SC-74A, SC-88A, UDFN6, SOT-553, SOT-953	-0.5 to +7.0 -0.5 to +6.5	V
V _{OUT}	DC Output Voltage TSOP-5, SC-88A (NLV) Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V)	-0.5 to V _{CC} + 0.5 -0.5 to +7.0 -0.5 to +7.0	V
I _{IK}	DC Input Diode Current V _{IN} < GND	-20	mA
I _{OK}	DC Output Diode Current V _{OUT} < GND	-20	mA
I _{OUT}	DC Output Source/Sink Current	25	mA
I _{CC} or I _{QND}	DC Supply Current per Supply Pin or Ground Pin	50	mA
T _{STG}	Storage Temperature Range	-65 to +150	°C

RECOMMENDED OPERATING CONDITIONS

Symbol	Characteristics	Min	Max	Unit
V _{CC}	Positive DC Supply Voltage	2.0	5.5	V
V _{IN}	DC Input Voltage	0	5.5	V
V _{OUT}	DC Output Voltage TSOP-5, SC-88A (NLV)	0	V _{CC}	V
	DC Output Voltage SC-74A, SC-88A, UDFN6, SOT-553, SOT-953 Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V)	0	V _{CC} 5.5 5.5	V
T _A	Operating Temperature Range	-55	+125	°C
t _r , t _f	Input Rise and Fall Time TSOP-5, SC-88A (NLV) V _{CC} = 3.0 V to 3.6 V V _{CC} = 4.5 V to 5.5 V	0	-100- -20-	ns/V
	Input Rise and Fall Time SC-74A, SC-88A, UDFN6, SOT-553, SOT-953 V _{CC} = 4.5 V to 5.5 V V _{CC} = 2.3 V to 2.7 V V _{CC} = 3.0 V to 3.6 V V _{CC} = 4.5 V to 5.5 V	0	-20- -20- -10- -10-	ns/V

RECOMMENDED OPERATING CONDITIONS

Symbol	Characteristics	Min	Max	Unit
V _{CC}	Positive DC Supply Voltage	2.0	5.5	V
V _{IN}	DC Input Voltage	0	5.5	V
V _{OUT}	DC Output Voltage TSOP-5, SC-88A (NLV)	0	V _{CC}	V
	DC Output Voltage SC-74A, SC-88A, UDFN6, SOT-553, SOT-953 Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V)	0	V _{CC} 5.5 5.5	V
T _A	Operating Temperature Range	-55	+125	°C
t _r , t _f	Input Rise and Fall Time TSOP-5, SC-88A (NLV) V _{CC} = 3.0 V to 3.6 V V _{CC} = 4.5 V to 5.5 V	0	No Limit No Limit	ns/V
	Input Rise and Fall Time SC-74A, SC-88A, UDFN6, SOT-553, SOT-953 V _{CC} = 2.0 V V _{CC} = 2.3 V to 2.7 V V _{CC} = 3.0 V to 3.6 V V _{CC} = 4.5 V to 5.5 V	0	No Limit No Limit No Limit No Limit	ns/V

I _{IN}	Input Leakage Current	V _{IN} = 5.5 V or GND	1.65 to 5.5	-	-	±0.1 [‡]
I _{OFF}	Power Off Leakage Current	V _{IN} = 5.5 V or V _{OUT} = 5.5 V	0	-	-	1.0
I _{CC}	Quiescent Supply Current	V _{IN} = V _{CC} or GND	5.5	-	-	1.0

[‡]Guaranteed by design.

I _{IN}	Input Leakage Current	V _{IN} = 5.5 V or GND	1.65 to 5.5	-	-	±0.1
I _{OFF}	Power Off Leakage Current	V _{IN} = 5.5 V or V _{OUT} = 5.5 V	0	-	-	1.0
I _{CC}	Quiescent Supply Current	V _{IN} = V _{CC} or GND	5.5	-	-	1.0

NL17SZ14 ファミリの場合:

現在のデータシート:

新しいデータシート:

FUNCTION TABLE	
Input	Output
A	Y
L	H
H	L

FUNCTION TABLE	
Input	Output
A	Y
L	H
H	L



MAXIMUM RATINGS

Symbol	Characteristics	Value	Unit	
V _{CC}	DC Supply Voltage	UDFN6, SOT-553, SC-88A (NLV), SC-74A, SC-88A, SOT-953	-0.5 to +7.0 -0.5 to +6.5	V
V _{IN}	DC Input Voltage	UDFN6, SOT-553, SC-88A (NLV), SC-74A, SC-88A, SOT-953	-0.5 to +7.0 -0.5 to +6.5	V
V _{OUT}	DC Output Voltage SC-88A (NLV), UDFN6, SOT-553	Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V)	-0.5 to V _{CC} + 0.5 -0.5 to +7.0 -0.5 to +7.0	V
	DC Output Voltage SC-74A, SC-88A, SOT-953	Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V)	-0.5 to V _{CC} + 0.5 -0.5 to +6.5 -0.5 to +6.5	V
I _{IK}	DC Input Diode Current	V _{IN} < GND	-50	mA
I _{OK}	DC Output Diode Current	V _{OUT} < GND	+50	mA

RECOMMENDED OPERATING CONDITIONS

Symbol	Characteristics	Min	Max	Unit
V _{CC}	Positive DC Supply Voltage	1.65	5.5	V
V _{IN}	DC Input Voltage	0	5.5	V
V _{OUT}	DC Output Voltage	Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V)	0	V _{CC}
			0	5.5
T _A	Operating Temperature Range	-55	+125	°C
t _r , t _f	Input Rise and Fall Time (SC-88A (NLV), UDFN6, SOT-553)	V _{CC} = 3.0 V to 3.6 V V _{CC} = 4.5 V to 5.5 V	0	+90/-90
			0	-20
t _r , t _f	Input Rise and Fall Time (SC-74A, SC-88A, SOT-953)	V _{CC} = 1.65 V to 1.95 V	0	-20
		V _{CC} = 2.3 V to 2.7 V	0	-20
		V _{CC} = 3.0 V to 3.6 V	0	-10
		V _{CC} = 4.5 V to 5.5 V	0	-5

I _{IN}	Input Leakage Current	V _{IN} = 5.5 V or GND	1.65 to 5.5	-	-	±0.1*	-	±1.0	µA
I _{OFF}	Power Off Leakage Current	V _{IN} = 5.5 V or V _{OUT} = 5.5 V	0	-	-	1.0	-	10	µA
I _{CC}	Quiescent Supply Current	V _{IN} = V _{CC} or GND	5.5	-	-	1.0	-	10	µA

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.
*Guaranteed-by-design.

MAXIMUM RATINGS

Symbol	Characteristics	Value	Unit	
V _{CC}	DC Supply Voltage	UDFN6, SOT-553, SC-88A (NLV), SC-74A, SC-88A, SOT-953	-0.5 to +7.0 -0.5 to +6.5	V
V _{IN}	DC Input Voltage	UDFN6, SOT-553, SC-88A (NLV), SC-74A, SC-88A, SOT-953	-0.5 to +7.0 -0.5 to +6.5	V
V _{OUT}	DC Output Voltage SC-88A (NLV), UDFN6, SOT-553	Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V)	-0.5 to V _{CC} + 0.5 -0.5 to +7.0 -0.5 to +7.0	V
	DC Output Voltage SC-74A, SC-88A, SOT-953	Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V)	-0.5 to V _{CC} + 0.5 -0.5 to +6.5 -0.5 to +6.5	V
I _{IK}	DC Input Diode Current	V _{IN} < GND	-50	mA
I _{OK}	DC Output Diode Current	V _{OUT} < GND	-50	mA

RECOMMENDED OPERATING CONDITIONS

Symbol	Characteristics	Min	Max	Unit
V _{CC}	Positive DC Supply Voltage	1.65	5.5	V
V _{IN}	DC Input Voltage	0	5.5	V
V _{OUT}	DC Output Voltage	Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V)	0	V _{CC}
			0	5.5
T _A	Operating Temperature Range	-55	+125	°C
t _r , t _f	Input Rise and Fall Time (SC-88A (NLV), UDFN6, SOT-553)	V _{CC} = 3.0 V to 3.6 V V _{CC} = 4.5 V to 5.5 V	0	No Limit No Limit
			0	No Limit
t _r , t _f	Input Rise and Fall Time (SC-74A, SC-88A, SOT-953)	V _{CC} = 1.65 V to 1.95 V	0	No Limit
		V _{CC} = 2.3 V to 2.7 V	0	No Limit
		V _{CC} = 3.0 V to 3.6 V	0	No Limit
		V _{CC} = 4.5 V to 5.5 V	0	No Limit

I _{IN}	Input Leakage Current	V _{IN} = 5.5 V or GND	1.65 to 5.5	-	-	±0.1	-	±1.0	µA
I _{OFF}	Power Off Leakage Current	V _{IN} = 5.5 V or V _{OUT} = 5.5 V	0	-	-	1.0	-	10	µA
I _{CC}	Quiescent Supply Current	V _{IN} = V _{CC} or GND	5.5	-	-	1.0	-	10	µA

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

NL17SZ17 ファミリの場合 :

現在のデータシート:

The NL17SZ17 is a single ~~Non~~inverting Schmitt Trigger Buffer in tiny footprint packages.

MAXIMUM RATINGS

Symbol	Characteristics	Value	Unit	
V _{CC}	DC Supply Voltage	UDFN6, SOT-553, SC-88A (NLV), SC-74A, SC-88A, SOT-953	-0.5 to +7.0 -0.5 to +6.5	V
V _{IN}	DC Input Voltage	UDFN6, SOT-553, SC-88A (NLV), SC-74A, SC-88A, SOT-953	-0.5 to +7.0 -0.5 to +6.5	V
V _{OUT}	DC Output Voltage SC-88A (NLV), UDFN6, SOT-553	Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V)	-0.5 to V _{CC} + 0.5 -0.5 to +7.0 -0.5 to +7.0	V
	DC Output Voltage SC-74A, SC-88A, SOT-953	Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V)	-0.5 to V _{CC} + 0.5 -0.5 to +6.5 -0.5 to +6.5	V
I _{IK}	DC Input Diode Current	V _{IN} < GND	-50	mA
I _{OK}	DC Output Diode Current	V _{OUT} < GND	+50	mA

RECOMMENDED OPERATING CONDITIONS

Symbol	Characteristics	Min	Max	Unit
V _{CC}	Positive DC Supply Voltage	1.65	5.5	V
V _{IN}	DC Input Voltage	0	5.5	V
V _{OUT}	DC Output Voltage	Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V)	0	V _{CC}
			0	5.5
T _A	Operating Temperature Range	-55	+125	°C
t _r , t _f	Input Rise and Fall Time (SC-88A (NLV), UDFN6, SOT-553)	V _{CC} = 3.0 V to 3.6 V V _{CC} = 4.5 V to 5.5 V	0	+90/-90
			0	-20
t _r , t _f	Input Rise and Fall Time (SC-74A, SC-88A, SOT-953)	V _{CC} = 1.65 V to 1.95 V	0	-20
		V _{CC} = 2.3 V to 2.7 V	0	-20
		V _{CC} = 3.0 V to 3.6 V	0	-10
		V _{CC} = 4.5 V to 5.5 V	0	-5

I _{IN}	Input Leakage Current	V _{IN} = 5.5 V or GND	1.65 to 5.5	-	-	±0.1*	-	±1.0	µA
I _{OFF}	Power Off Leakage Current	V _{IN} = 5.5 V or V _{OUT} = 5.5 V	0	-	-	1.0	-	10	µA
I _{CC}	Quiescent Supply Current	V _{IN} = V _{CC} or GND	5.5	-	-	1.0	-	10	µA

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.
*Guaranteed-by-design.

新しいデータシート:

The NL17SZ17 is a single Schmitt Trigger Buffer in tiny footprint packages

MAXIMUM RATINGS

Symbol	Characteristics	Value	Unit	
V _{CC}	DC Supply Voltage	UDFN6, SOT-553, SC-88A (NLV), SC-74A, SC-88A, SOT-953	-0.5 to +7.0 -0.5 to +6.5	V
V _{IN}	DC Input Voltage	UDFN6, SOT-553, SC-88A (NLV), SC-74A, SC-88A, SOT-953	-0.5 to +7.0 -0.5 to +6.5	V
V _{OUT}	DC Output Voltage SC-88A (NLV), UDFN6, SOT-553	Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V)	-0.5 to V _{CC} + 0.5 -0.5 to +7.0 -0.5 to +7.0	V
	DC Output Voltage SC-74A, SC-88A, SOT-953	Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V)	-0.5 to V _{CC} + 0.5 -0.5 to +6.5 -0.5 to +6.5	V
I _{IK}	DC Input Diode Current	V _{IN} < GND	-50	mA
I _{OK}	DC Output Diode Current	V _{OUT} < GND	-50	mA

RECOMMENDED OPERATING CONDITIONS

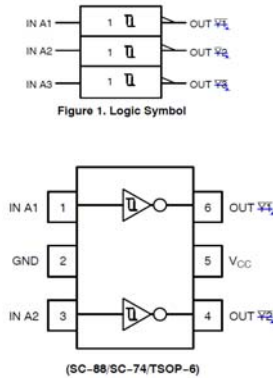
Symbol	Characteristics	Min	Max	Unit
V _{CC}	Positive DC Supply Voltage	1.65	5.5	V
V _{IN}	DC Input Voltage	0	5.5	V
V _{OUT}	DC Output Voltage	Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V)	0	V _{CC}
			0	5.5
T _A	Operating Temperature Range	-55	+125	°C
t _r , t _f	Input Rise and Fall Time (SC-88A (NLV), UDFN6, SOT-553)	V _{CC} = 3.0 V to 3.6 V V _{CC} = 4.5 V to 5.5 V	0	No Limit No Limit
			0	No Limit
t _r , t _f	Input Rise and Fall Time (SC-74A, SC-88A, SOT-953)	V _{CC} = 1.65 V to 1.95 V	0	No Limit
		V _{CC} = 2.3 V to 2.7 V	0	No Limit
		V _{CC} = 3.0 V to 3.6 V	0	No Limit
		V _{CC} = 4.5 V to 5.5 V	0	No Limit

I _{IN}	Input Leakage Current	V _{IN} = 5.5 V or GND	1.65 to 5.5	-	-	±0.1	-	±1.0	µA
I _{OFF}	Power Off Leakage Current	V _{IN} = 5.5 V or V _{OUT} = 5.5 V	0	-	-	1.0	-	10	µA
I _{CC}	Quiescent Supply Current	V _{IN} = V _{CC} or GND	5.5	-	-	1.0	-	10	µA

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

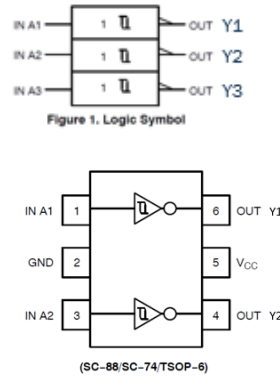
NL27WZ14 ファミリの場合 :

現在のデータシート:



MAXIMUM RATINGS				
Symbol	Characteristics		Value	Units
V_{CC}	DC Supply Voltage	SC-88, SC-74, SC-88 (NLV) SC-88, SC-74, TSOP-6, UDFN6	-0.5 to +7.0 -0.5 to +6.5	V
V_{IH}	DC Input Voltage	SC-88 (NLV) SC-88, SC-74, TSOP-6, UDFN6	-0.5 to +7.0 -0.5 to +6.5	V
V_{OUT}	DC Output Voltage	Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode ($V_{CC} = 0$ V)	-0.5 to $V_{CC} + 0.5$ -0.5 to +7.0 -0.5 to +7.0	V
	DC Output Voltage	Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode ($V_{CC} = 0$ V)	-0.5 to $V_{CC} + 0.5$ -0.5 to +6.5 -0.5 to +6.5	V
I_{IK}	DC Input Diode Current, $V_{IH} < GND$		-50	mA
I_{OK}	DC Output Diode Current, $V_{OUT} < GND$		+60	mA

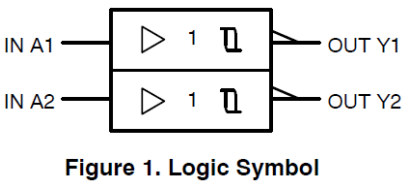
新しいデータシート:



MAXIMUM RATINGS				
Symbol	Characteristics		Value	Units
V_{CC}	DC Supply Voltage	SC-88, SC-74, SC-88 (NLV) SC-88, SC-74, TSOP-6, UDFN6	-0.5 to +7.0 -0.5 to +6.5	V
V_{IH}	DC Input Voltage	SC-88 (NLV) SC-88, SC-74, TSOP-6, UDFN6	-0.5 to +7.0 -0.5 to +6.5	V
V_{OUT}	DC Output Voltage	Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode ($V_{CC} = 0$ V)	-0.5 to $V_{CC} + 0.5$ -0.5 to +7.0 -0.5 to +7.0	V
	DC Output Voltage	Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode ($V_{CC} = 0$ V)	-0.5 to $V_{CC} + 0.5$ -0.5 to +6.5 -0.5 to +6.5	V
I_{IK}	DC Input Diode Current, $V_{IH} < GND$		-50	mA
I_{OK}	DC Output Diode Current, $V_{OUT} < GND$		-50	mA

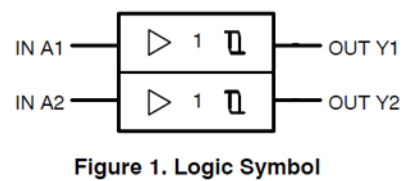
NL27WZ17 ファミリの場合 :

現在のデータシート:



MAXIMUM RATINGS				
Symbol	Characteristics		Value	Units
V_{CC}	DC Supply Voltage	SC-88, SC-74, SC-88 (NLV) SC-88, SC-74, TSOP-6, UDFN6	-0.5 to +7.0 -0.5 to +6.5	V
V_{IH}	DC Input Voltage	SC-88 (NLV) SC-88, SC-74, TSOP-6, UDFN6	-0.5 to +7.0 -0.5 to +6.5	V
V_{OUT}	DC Output Voltage	Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode ($V_{CC} = 0$ V)	-0.5 to $V_{CC} + 0.5$ -0.5 to +7.0 -0.5 to +7.0	V
	DC Output Voltage	Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode ($V_{CC} = 0$ V)	-0.5 to $V_{CC} + 0.5$ -0.5 to +6.5 -0.5 to +6.5	V
I_{IK}	DC Input Diode Current, $V_{IH} < GND$		-50	mA
I_{OK}	DC Output Diode Current, $V_{OUT} < GND$		+60	mA

新しいデータシート:



MAXIMUM RATINGS				
Symbol	Characteristics		Value	Units
V_{CC}	DC Supply Voltage	SC-88, SC-74, SC-88 (NLV) SC-88, SC-74, TSOP-6, UDFN6	-0.5 to +7.0 -0.5 to +6.5	V
V_{IH}	DC Input Voltage	SC-88 (NLV) SC-88, SC-74, TSOP-6, UDFN6	-0.5 to +7.0 -0.5 to +6.5	V
V_{OUT}	DC Output Voltage	Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode ($V_{CC} = 0$ V)	-0.5 to $V_{CC} + 0.5$ -0.5 to +7.0 -0.5 to +7.0	V
	DC Output Voltage	Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode ($V_{CC} = 0$ V)	-0.5 to $V_{CC} + 0.5$ -0.5 to +6.5 -0.5 to +6.5	V
I_{IK}	DC Input Diode Current, $V_{IH} < GND$		-50	mA
I_{OK}	DC Output Diode Current, $V_{OUT} < GND$		-50	mA

ORDERING INFORMATION

Device	Package	Specific Device Code	Pin1 Orientation (See below)	Shipping ¹
NL27WZ17DFT2G	SC-88	MX	G4	3000 / Tape & Reel
NLV27WZ17DFT2G*	SC-88	MX	G4	3000 / Tape & Reel

ORDERING INFORMATION

Device	Package	Specific Device Code	Pin1 Orientation (see Below)	Shipping ¹
NL27WZ17DFT2G	SC-88	MX	G4	3000 / Tape & Reel
NLV27WZ17DFT2G*	SC-88	MX	G4	3000 / Tape & Reel

NL37WZ14 ファミリの場合:

現在のデータシート:

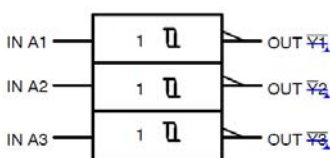


Figure 1. Logic Symbol

FUNCTION TABLE

A Input	\bar{Y}_X Output
L	H
H	L

RECOMMENDED OPERATING CONDITIONS

Symbol	Characteristics	Min	Max	Unit
V_{CC}	Positive DC Supply Voltage	0-5.5	5.5	V
V_{IN}	DC Input Voltage	0	5.5	V
V_{OUT}	DC Output Voltage	0	V_{CC}	
	Active-Mode (High or Low State)	0	5.5	
	Tri-State Mode (Note 1)	0	5.5	
	Power-Down Mode ($V_{CC} = 0$ V)	0	5.5	
T_A	Operating Temperature Range	-55	+125	°C
t_r, t_f	Input Rise and Fall Time	0	-90-	ns/V
	$V_{CC} = 1.65$ V to 1.95 V	0	-90-	
	$V_{CC} = 2.3$ V to 2.7 V	0	-90-	
	$V_{CC} = 3.0$ V to 3.6 V	0	-10-	
	$V_{CC} = 4.5$ V to 5.5 V	0	-5-	

NL37WZ16 ファミリの場合:

現在のデータシート:

NL37WZ16 は、1.65 V~5.5 V 電源で動作する入力を備えた高性能バッファです。

Features

- Designed for 1.65V to 5.5V V_{CC} Operation
- 2.7 ns t_{PD} at $V_{CC} = 5$ V (Typ)

新しいデータシート:

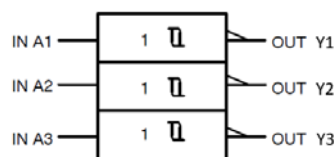


Figure 1. Logic Symbol

FUNCTION TABLE

A Input	Y Output
L	H
H	L

RECOMMENDED OPERATING CONDITIONS

Symbol	Characteristics	Min	Max	Unit
V_{CC}	Positive DC Supply Voltage	1.65	5.5	V
V_{IN}	DC Input Voltage	0	5.5	V
V_{OUT}	DC Output Voltage	0	V_{CC}	
	Active-Mode (High or Low State)	0	5.5	
	Tri-State Mode (Note 1)	0	5.5	
	Power-Down Mode ($V_{CC} = 0$ V)	0	5.5	
T_A	Operating Temperature Range	-55	+125	°C
t_r, t_f	Input Rise and Fall Time	0	No Limit	ns/V
	$V_{CC} = 1.65$ V to 1.95 V	0	No Limit	
	$V_{CC} = 2.3$ V to 2.7 V	0	No Limit	
	$V_{CC} = 3.0$ V to 3.6 V	0	No Limit	
	$V_{CC} = 4.5$ V to 5.5 V	0	No Limit	

NL37WZ16 は、1.65 V~5.5 V 電源で動作する入力を備えた高性能トリプルバッファです。

Features

- Designed for 1.65V to 5.5V V_{CC} Operation
- 2.4 ns t_{PD} at $V_{CC} = 5$ V (Typ)

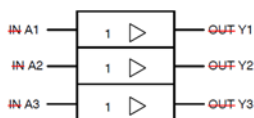
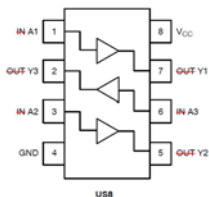




Figure 1. Logic Symbol



FUNCTION TABLE

A Input	Y Output
L	L
H	H

DEVICE ORDERING INFORMATION

Device	Packages	Specific Device Code	Pin 1 Orientation (See below)	Shipping ¹
NL37WZ16USG	US8		Q4	3000 / Tape & Reel
NLV37WZ16USG* (In Development)	US8		Q4	3000 / Tape & Reel

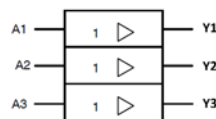
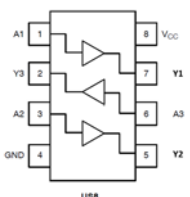


Figure 1. Logic Symbol



FUNCTION TABLE

A Input	Y Output
L	L
H	H

DEVICE ORDERING INFORMATION

Device	Packages	Specific Device Code	Pin 1 Orientation (See below)	Shipping ¹
NL37WZ16USG	US8	LR	Q4	3000 / Tape & Reel
NLV37WZ16USG* (In Development)	US8	LR	Q4	3000 / Tape & Reel

NL37WZ17 ファミリの場合 :

現在のデータシート:

NL37WZ17 は、1.65 V~5.5 V 電源で動作する入力を備えた高性能バッファです。

Features

- Designed for 1.65V to 5.5V V_{CC} Operation
- 2.7 ns t_{PD} at $V_{CC} = 5V$ (Typ)

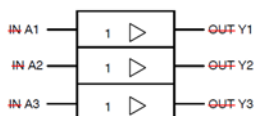
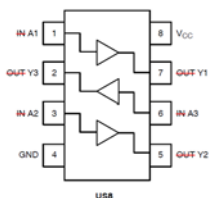


Figure 1. Logic Symbol



FUNCTION TABLE

A Input	Y Output
L	L
H	H

新しいデータシート

NL37WZ17 は、1.65 V~5.5 V 電源で動作する入力を備えた高性能トリプルバッファです。

Features

- Designed for 1.65V to 5.5V V_{CC} Operation
- 2.4 ns t_{PD} at $V_{CC} = 5V$ (Typ)

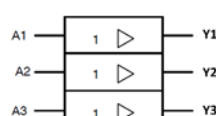
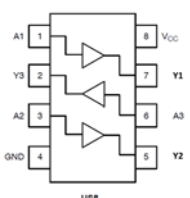


Figure 1. Logic Symbol



FUNCTION TABLE

A Input	Y Output
L	L
H	H



DEVICE ORDERING INFORMATION

Device	Packages	Specific Device Code	Pin 1 Orientation (See Below)	Shipping ¹
NL37WZ17USG	US8	LA	Q4	3000 / Tape & Reel
NLV37WZ17USG	US8	LA	Q4	3000 / Tape & Reel

DEVICE ORDERING INFORMATION

Device	Packages	Specific Device Code	Pin 1 Orientation (See Below)	Shipping ¹
NL37WZ17USG	US8	LX	Q4	3000 / Tape & Reel
NLV37WZ17USG	US8	LX	Q4	3000 / Tape & Reel

影響を受ける部品の一覧:

注: 標準の部品番号(既製品)のみが部品一覧に記載されます。本 PCN に影響を受けるカスタム 部品は、PCN メールのお客様の特定の PCN の付属文書、または PCN カスタマイズポータルに記載されています。

MC74HC1G14DBVT1G	MC74HC1G14DFT1G	MC74HC1G14DFT2G
MC74HC1G14DTT1G	MC74HC1G14MX1TCG	MC74VHC1G14DBVT1G
MC74VHC1G14DFT1G	MC74VHC1G14MU2TCG	NL27WZ14MU1TCG
NL27WZ14MU3TCG	NL27WZ17DFT2G	NL27WZ17MU1TCG
NL27WZ17MU3TCG	NL37WZ14MU3TCG	NL37WZ14USG
NL37WZ16USG	NL37WZ17USG	MC74VHC1G14DFT2G
MC74VHC1G14P5T5G	MC74VHC1G14DTT1G	MC74VHC1GT14DBVT1G
MC74VHC1GT14MU1TCG	MC74VHC1GT14MU2TCG	MC74VHC1GT14MU3TCG
NL17SZ14DBVT1G	NL17SZ14DFT2G	NL17SZ14P5T5G
NL17SZ14XV5T2G	NL17SZ17DBVT1G	NL17SZ17DFT2G
NL17SZ17P5T5G	NL17SZ17XV5T2G	NL27WZ14DBVT1G
NL27WZ14DFT2G	NL27WZ14DTT1G	NL27WZ17DBVT1G



Appendix A: Changed Products

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
MC74HC1G14DFT1G		NA		
MC74HC1G14DTT1G		NA		
MC74VHC1G14DFT1G		NA		
NL27WZ17DFT2G		NA		
NL37WZ14USG		NA		
NL37WZ16USG		NA		
NL37WZ17USG		NA		
MC74VHC1G14DFT2G		NA		
MC74VHC1G14DTT1G		NA		
NL17SZ14DFT2G		NA		
NL17SZ14XV5T2G		NA		
NL17SZ17DFT2G		NA		
NL17SZ17XV5T2G		NA		
NL27WZ14DFT2G		NA		
NL27WZ14DTT1G		NA		
MC74HC1G14DFT2G		NA		