

Single Input Buffer **NLV17SZ16**

The NLV17SZ16 is a single input Buffer in tiny footprint packages.

SC-88A **DF SUFFIX** CASE 419A



MARKING



SOT-553 **XV5 SUFFIX CASE 463B**





SOT-953 P5 SUFFIX CASE 527AE



Specific Device Code

Date Code*

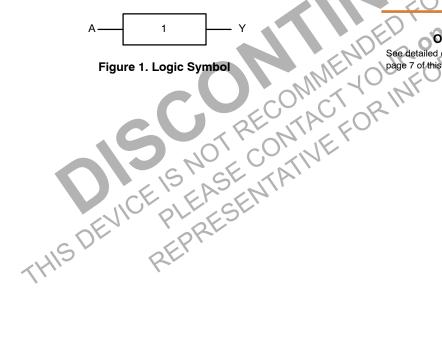
= Pb-Free Package

(Note: Microdot may be in either location)

*Date Code orientation and/or position may vary depending upon manufacturing location.

Features

- Designed for 1.65 V to 5.5 V V_{CC} Operation
- 2.4 ns t_{PD} at $V_{CC} = 5 \text{ V (typ)}$
- Inputs/Outputs Overvoltage Tolerant up to 5.5 V
- I_{OFF} Supports Partial Power Down Protection
- Source/Sink 24 mA at 3.0 V
- Available in SC-88A, SOT-553 and SOT-953 Packages
- Chip Complexity < 100 FETs
- NLV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q100 Qualified and PPAP Capable
- These Devices are Pb-Free, Halogen Free/BFR Free and are RoHS Compliant



ORDERING INFORMATION

See detailed ordering, marking and shipping information on page 7 of this data sheet.

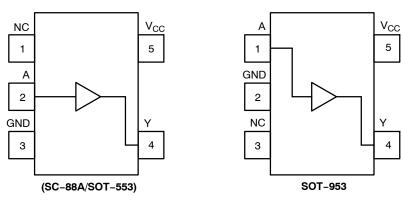


Figure 2. Pinout (Top View)

PIN ASSIGNMENT

(SC-88A/SOT-553)

Pin	Function
1	NC
2	A
3	GND
4	Y
5	V _{CC}

PIN ASSIGNMENT (SOT-953)

Pin	Function		Pin	Function	A Input
1	NC		1	Α	L
2	Α		2	GND	Н
3	GND		3	NC	TEN.
4	Y		4	Y	22
5	V _{CC}		5	V_{CC}	EO, WIN W
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FUNCTION TABLE

A Input	Y Output		
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H	Н		

MAXIMUM RATINGS

Symbol	Characteristics		Value	Unit
V _{CC}	DC Supply Voltage		-0.5 to +7.0	V
V _{IN}	DC Input Voltage		–0.5 to +7.0	V
V _{OUT}	DC Output Voltage Active-Mode (High or Low Tri-State Mode (N Power-Down Mode (V _{CC})	ote 1)	-0.5 to V _{CC} + 0.5 -0.5 to +7.0 -0.5 to +7.0	V
	DC Output Voltage (NL17SZ16P5T5G-L22088	Only)	-0.5 to V _{CC} + 0.5	
I _{IK}	DC Input Diode Current V _{IN} <	GND	-50	mA
lok	DC Output Diode Current V _{OUT} <	GND	-50	mA
	DC Output Diode Current (NL17SZ16P5T5G-L22088	Only)	±50	
lout	DC Output Source/Sink Current		±50	mA
I _{CC} or I _{GND}	DC Supply Current per Supply Pin or Ground Pin		±100	mA
T _{STG}	Storage Temperature Range		-65 to +150	7 °C
TL	Lead Temperature, 1 mm from Case for 10 secs		260	°C
T_J	Junction Temperature Under Bias		+150	°C
θ _{JA}	, so	C-88A T-553 T-953	377 324 254	°C/W
P _D	SO	C–88A T–553 T–953	332 386 491	mW
MSL	Moisture Sensitivity	0,,	Level 1	-
F _R	Flammability Rating Oxygen Index: 28	to 34	UL 94 V-0 @ 0.125 in	_
V _{ESD}	ESD Withstand Voltage (Note 3) Charged Device		2000 1000	V
I _{Latchup}	Latchup Performance (Note 4)		±100	mA

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

1. Applicable to devices with outputs that may be tri-stated.

2. Measured with minimum pad spacing on an FR4 board, using 10mm-by-1inch, 2 ounce copper trace no air flow per JESD51-7.

3. HBM tested to ANSI/ESDA/JEDEC JS-001-2017. CDM tested to EIA/JESD22-C101-F. JEDEC recommends that ESD qualification to EIA/JESD22-A115-A (Machine Model) be discontinued per JEDEC/JEP172A.

4. Tested to EIA/JESD78 Class III

THIS DEW

RECOMMENDED OPERATING CONDITIONS

Symbol	Characteristics			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 0 0	V _{CC} 5.5 5.5	V
	DC Output Voltage	(NL17SZ16P5T5G-L22088 Only)	0	V_{CC}	
T _A	Operating Temperature Range		-55	+125	°C
t _r , t _f	Input Rise and Fall Time	V _{CC} = 3.0 V to 3.6 V V _{CC} = 4.5 V to 5.5 V	0	100 20	ns/V

Functional operation above the stresses listed in the Recommended Operating Ranges is not implied. Extended exposure to stresses beyond the Recommended Operating Ranges limits may affect device reliability.

DC ELECTRICAL CHARACTERISTICS

			V _{CC}	T _A = 25°C		-55°C ≤ T			
Symbol	Parameter	Condition	(V)	Min	Тур	Max	Min	Max	Units
V _{IH}	High-Level Input		1.65 to 1.95	0.75 x V _{CC}			0.75 x V _{CC}		V
	Voltage		2.3 to 5.5	0.70 x V _{CC}		2 M	0.70 x V _{CC}		
V _{IL}	Low-Level Input		1.65 to 1.95			0.25 x V _{CC}	1. 1	0.25 x V _{CC}	V
	Voltage		2.3 to 5.5		7	$0.30 \times V_{CC}$	10/2	0.30 x V _{CC}	
V _{OH}	High-Level Output Voltage	$V_{IN} = V_{IH} \text{ or } V_{IL}$ $I_{OH} = -100 \mu A$ $I_{OH} = -4 \text{ mA}$	1.65 to 5.5 1.65	V _{CC} - 0.1 1.29	V _{CC}	DINA	V _{CC} - 0.1 1.29	-	٧
		$I_{OH} = -8 \text{ mA}$ $I_{OH} = -12 \text{ mA}$	2.3 2.7	1.9 2.2	2.1 2.4	0,-,	1.9 2.2	-	
		$I_{OH} = -16 \text{ mA}$	3.0	2.4	2.7	_	2.4	_	
		$I_{OH} = -24 \text{ mA}$ $I_{OH} = -32 \text{ mA}$	3.0 4.5	2.3 3.8	2.5 4.0	-	2.3 3.8	-	
V _{OL}	Low-Level Output Voltage	$V_{IN} = V_{IH} \text{ or } V_{IL}$ $I_{OL} = 100 \mu\text{A}$	1.65 to 5.5	_	_	0.1	-	0.1	V
		$I_{OI} = 4 \text{ m}\Delta$	1.65	-	0.08 0.2	0.24 0.3	-	0.24 0.3	
		I _{OL} = 8 mA I _{OL} = 12 mA	2.3 2.7	_	0.2	0.3	_	0.3	
	CX	I _{OL} = 16 mA	3.0	_	0.28	0.4	_	0.4	
	110.	I _{OL} = 24 mA	3.0	_	0.38	0.55	_	0.55	
	EV.	$I_{OL} = 32 \text{ mA}$	4.5	_	0.42	0.55	-	0.55	
I _{IN}	Input Leakage Current	$V_{IN} = 5.5 \text{ V or GND}$	1.65 to 5.5	-	-	±0.1	-	±1.0	μΑ
l _{OFF}	Power Off Leakage Current	V_{IN} = 5.5 V or V_{OUT} = 5.5 V	0	-	-	1.0	-	10	μΑ
	Power Off Leakage Current (NL17SZ16P5T5G- L22088 Only)	V _{IN} = 5.5 V	0	-	-	1.0	-	10	μΑ
I _{CC}	Quiescent Supply Current	V _{IN} = V _{CC} or GND	5.5	-	-	1.0	-	10	μΑ

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.

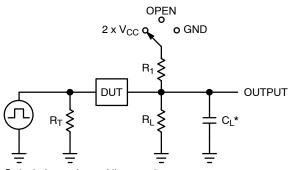
AC ELECTRICAL CHARACTERISTICS

			V _{CC}	V _A = 25°C		С	-55°C ≤ T _A ≤ 125°C		
Symbol	Parameter	Condition	(V)	Min	Тур	Max	Min	Max	Units
t _{PLH}	t _{PLH} Propagation Delay, A to Y (Figures 3 and 4)	$R_L = 1 \text{ M}\Omega, C_L = 15 \text{ pF}$	1.65 to 1.95	-	5.3	11.4	-	12.0	ns
₹PHL		$R_L = 1 \text{ M}\Omega, C_L = 15 \text{ pF}$	2.3 to 2.7	-	2.9	6.5	-	7.0	
		$R_L = 1 \text{ M}\Omega, C_L = 15 \text{ pF}$	3.0 to 3.6	_	2.1	4.5	-	4.7	
		R_L = 500 Ω, C_L = 50 pF		_	2.9	5.0	-	5.2	
	$R_L = 1 \text{ M}\Omega, C_L = 15 \text{ pF}$	4.5 to 5.5	_	1.8	3.9	-	4.1		
		R_L = 500 Ω, C_L = 50 pF		-	2.4	4.3	-	4.5	

CAPACITIVE CHARACTERISTICS

Symbol	Parameter	Condition	Typical	Units
C _{IN}	Input Capacitance	$V_{CC} = 5.5 \text{ V}, V_{IN} = 0 \text{ V or } V_{CC}$	2.5	pF
C _{OUT}	Output Capacitance	$V_{CC} = 5.5 \text{ V}, V_{IN} = 0 \text{ V or } V_{CC}$	2.5	pF
C _{PD}	Power Dissipation Capacitance (Note 5)	10 MHz, V_{CC} = 3.3 V, V_{IN} = 0 V or V_{CC} 10 MHz, V_{CC} = 5.5 V, V_{IN} = 0 V or V_{CC}	9 11	pF

5. C_{PD} is defined as the value of the internal equivalent capacitance which is calculated from the operating current consumption without load. Average operating current can be obtained by the equation: $I_{CC(OPR)} = C_{PD} \bullet V_{CC} \bullet f_{in} + I_{CC}$. C_{PD} is used to determine the no-load dynamic power consumption: $P_D = C_{PD} \bullet V_{CC}^2 \bullet f_{in} + I_{CC} \bullet V_{CC}$.



Test	Switch Position	C _L , pF	R_L, Ω	R ₁ , Ω	
t _{PLH} / t _{PHL}	Open	See AC Characteristics Table			
t _{PLZ} / t _{PZL}	2 x V _{CC}	50	500	500	
t _{PHZ} / t _{PZH}	GND	50	500	500	

X = Don't Care

 C_L includes probe and jig capacitance R_T is Z_{OUT} of pulse generator (typically 50 $\Omega)$

f = 1 MHz

Figure 3. Test Circuit

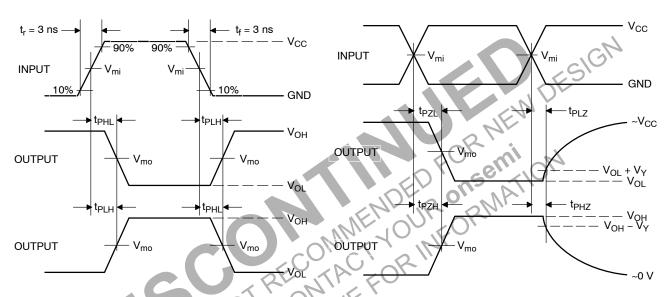


Figure 4. Switching Waveforms

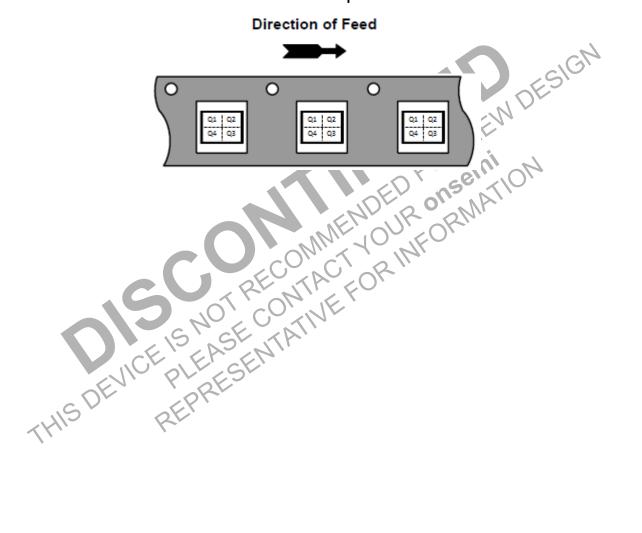
	INCHAIR CE	V _m	, V	
V _{CC} , V	V _{mi} , V	t _{PLH} , t _{PHL}	t_{PZL} , t_{PLZ} , t_{PZH} , t_{PHZ}	V _Y , V
1.65 to 1.95	V _{CC} /2	V _{CC} /2	V _{CC} /2	0.15
2.3 to 2.7	V _{CC} /2	V _{CC} /2	V _{CC} /2	0.15
3.0 to 3.6	V _{CC} /2	V _{CC} /2	V _{CC} /2	0.3
4.5 to 5.5	V _{CC} /2	V _{CC} /2	V _{CC} /2	0.3

DEVICE ORDERING INFORMATION

Device	Packages	Specific Device Code	Pin 1 Orientation (See below)	Shipping [†]
NL17SZ16DFT2G-L22038	SC-88A	LR	Q4	3000 / Tape & Reel
NL17SZ16XV5T2G-L22087	SOT-553	LR	Q4	4000 / Tape & Reel
NL17SZ16P5T5G-L22088	SOT-953	L (Rotated 180°)	Q2	8000 / Tape & Reel

[†]For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

Pin 1 Orientation in Tape and Reel



^{*}NLV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q100 Qualified and PPAP Capable.





SC-88A (SC-70-5/SOT-353) CASE 419A-02 ISSUE M

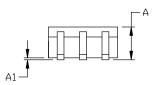
DATE 11 APR 2023

NOTES:

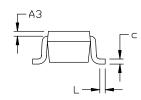
- 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
- 2. CONTROLLING DIMENSION: MILLIMETERS
- 3. 419A-01 DBSDLETE, NEW STANDARD 419A-02
- 4. DIMENSIONS D AND E1 DO NOT INCLUDE MOLD FLASH,
 PROTRUSIONS, OR GATE BURRS.MOLD FLASH, PROTRUSIONS,
 OR GATE BURRS SHALL NOT EXCEED 0.1016MM PER SIDE.

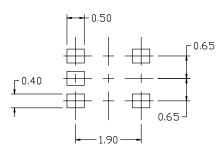
DIM	MI	MILLIMETERS			
INITU	MIN.	N□M.	MAX.		
А	0.80	0.95	1.10		
A1			0.10		
A3	0,20 REF				
b	0.10	0.20	0.30		
C	0.10		0.25		
D	1.80	2.00	2,20		
Е	2.00	2.10	2.20		
E1	1.15	1.25	1.35		
е	0.65 BSC				
L	0.10	0.15	0.30		

5 4 E1 E1 E1 E1 E1 E1



◆ 0.2 M B M





RECOMMENDED MOUNTING FOOTPRINT

For additional information on our Pb-Free strategy and soldering details, please download the DN Semiconductor Soldering and Mounting Techniques Reference Manual, SDLDERRM/D.

GENERIC MARKING DIAGRAM*



*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "•", may or may not be present. Some products may not follow the Generic Marking.

XXX = Specific Device Code

M = Date Code

= Pb-Free Package

(Note: Microdot may be in either location)

STYLE 1:
PIN 1. BASE
EMITTER
3. BASE
COLLECTOR
COLLECTOR

STYLE 2:
PIN 1. ANODE
2. EMITTER
3. BASE
4. COLLECTOR
5. CATHODE

STYLE 3: PIN 1. ANODE 1 2. N/C 3. ANODE 2 4. CATHODE 2 5. CATHODE 1 STYLE 4:
PIN 1. SOURCE 1
2. DRAIN 1/2
3. SOURCE 1
4. GATE 1
5. GATE 2

STYLE 5: PIN 1. CATHODE 2. COMMON ANODE 3. CATHODE 2 4. CATHODE 3 5. CATHODE 4

STYLE 6: PIN 1. EMITTER 2 2. BASE 2 3. EMITTER 1 4. COLLECTOR STYLE 7:
PIN 1. BASE
2. EMITTER
3. BASE
4. COLLECTOR
5. COLLECTOR

STYLE 8:
PIN 1. CATHODE
2. COLLECTOR
3. N/C
4. BASE
5. EMITTER

STYLE 9: PIN 1. ANODE 2. CATHODE 3. ANODE 4. ANODE 5. ANODE Note: Please refer to datasheet for style callout. If style type is not called out in the datasheet refer to the device datasheet pinout or pin assignment.

DOCUMENT NUMBER:

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DESCRIPTION:

5. COLLECTOR 2/BASE 1

SC-88A (SC-70-5/SOT-353)

PAGE 1 OF 1

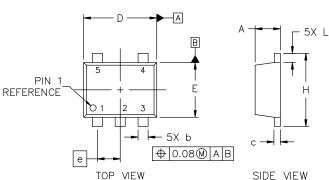
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SOT-553-5 1.60x1.20x0.55, 0.50P CASE 463B ISSUE D

DATE 21 FEB 2024



NOTES:

- . DIMENSIONING AND TOLERANCING CONFORM TO ASME Y14.5-2018.
- . ALL DIMENSION ARE IN MILLIMETERS.
- 3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH THICKNESS. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.

DIM				
DIM	MIN.	NOM.	MAX.	
А	0.50	0.55	0.60	
b	0.17	0.22	0.27	
С	0.08	0.13	0.18	
D	1.55	1.60	1.65	
E	1.15	1.20	1.25	
е	0.50 BSC			
Н	1.55	1.60	1.65	
Ĺ	0.10	0.20	0.30	

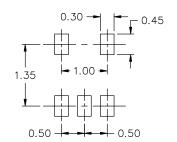
STYLE 5:

PIN 1. ANODE 2. EMITTER

3. BASE 4. COLLECTOR

5. CATHODE

MILLIMETERS



RECOMMENDED MOUNTING FOOTPRINT*

* FOR ADDITIONAL INFORMATION ON OUR Pb-FREE STRATEGY AND SOLDERING DETAILS, PLEASE DOWNLOAD THE ON SEMICONDUCTOR SOLDERING AND MOUNTING TECHNIQUES REFERENCE MANUAL, SOLDERRM/D.

GENERIC MARKING DIAGRAM*



XX = Specific Device Code

M = Date Code

= Pb-Free Package

(Note: Microdot may be in either location)

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STYLE 1: STYLE 2: STYLE 3: STYLE 4: PIN 1. CATHODE 2. COMMON ANODE PIN 1. BASE 2. EMITTER PIN 1. ANODE 1 2. N/C PIN 1. SOURCE 1 2. DRAIN 1/2 3. BASE 4. COLLECTOR 3. CATHODE 2 4. CATHODE 3 3. ANODE 2 4. CATHODE 2 3. SOURCE 1 4. GATE 1 5. COLLECTOR CATHODE 4 CATHODE 1 5. GATE 2

STYLE 6: STYLE 9: STYLE 7 STYLE 8: PIN 1. EMITTER 2 PIN 1. CATHODE 2. COLLECTOR PIN 1. ANODE 2. CATHODE PIN 1. BASE 2. EMITTER 2. BASE 2 **EMITTER 1** 3. BASE 4. COLLECTOR 3. N/C 4. BASE 3. ANODE 4. ANODE 4. COLLECTOR 1 COLLECTOR 2/BASE 1 5. EMITTER 5. ANODE

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DESCRIPTION: SOT-553-5 1.60x1.20x0.55, 0.50P PAGE 1 OF 1

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MILLIMFTERS

 $N\square M$

0.37

0.15

0.12

1.00

0.80

0.35 BSC

1.00

0.175

MIN

0.34

0.10

0.07

0.95

0.75

0.95

0.125

DIM

Α

b

C

 \mathbb{D}

E

9 Н



SOT-953 1.00x0.80x0.37, 0.35P CASE 527AE **ISSUE F**

DATE 17 JAN 2024

MAX

0.40

0.20

0.17

1.05

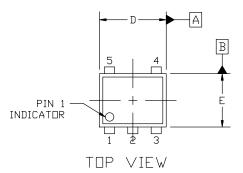
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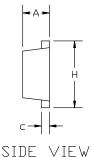
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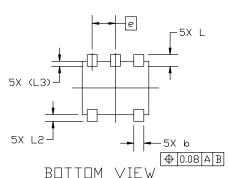
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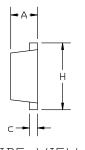
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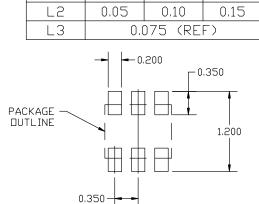
- DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 2018.
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= Specific Device Code

= Month Code

*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "■", may

,	e present. Some produ Generic Marking.	ucts may	

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