

Single 2-Input AND Gate NL17SZ08

The NL17SZ08 is a single 2-input AND Gate in tiny footprint packages.

SC-88A DF SUFFIX CASE 419A



MARKING DIAGRAMS

Features

- Designed for 1.65 V to 5.5 V V_{CC} Operation
- 2.7 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, SC-74A, SOT-553, SOT-953 and UDFN6 Packages
- Chip Complexity < 100 FETs
- –Q Suffix 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



Figure 1. Logic Symbol



SC-74A DBV SUFFIX CASE 318BQ





SOT-553 XV5 SUFFIX CASE 463B





SOT-953 P5 SUFFIX CASE 527AE





UDFN6 1.45 x 1.0 CASE 517AQ





UDFN6 1.0 x 1.0 CASE 517BX

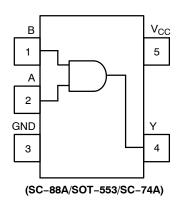


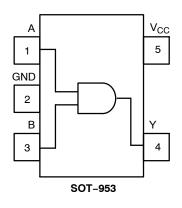
XX = Specific Device Code
M = Date Code*
Pb-Free Package

*Date Code orientation and/or position may vary depending upon manufacturing location. (Note: Microdot may be in either location)

ORDERING INFORMATION

See detailed ordering, marking and shipping information in the package dimensions section on page 7 of this data sheet.





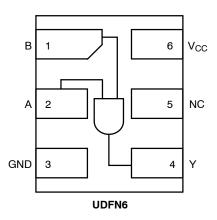


Figure 2. Pinout (Top View)

PIN ASSIGNMENT (SC-88A/SOT-553/SC-74A)

Pin	Function
1	В
2	A
3	GND
4	Υ
5	V _{CC}

PIN ASSIGNMENT (SOT-953)

Pin	Function
1	А
2	GND
3	В
4	Y
5	V _{CC}

PIN ASSIGNMENT (UDFN)

Pin	Function
1	В
2	Α
3	GND
4	Υ
5	NC
6	V _{CC}

FUNCTION TABLE

Inp	Output Y = AB	
Α	В	Υ
L	L	L
L	Н	L
Н	L	L
Н	Н	Н

MAXIMUM RATINGS

Symbol	Characteristics	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 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
l _{ok}	DC Output Diode Current V _{OUT} < GND	-50	mA
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	°C
T _L	Lead Temperature, 1 mm from Case for 10 secs	260	°C
TJ	Junction Temperature Under Bias	+150	°C
θЈА	Thermal Resistance (Note 2) SC-88A SC-74A SOT-553 SOT-953 UDFN6	377 320 324 254 154	°C/W
P _D	Power Dissipation in Still Air SC-88A SC-74A SOT-553 SOT-953 UDFN6	332 390 386 491 812	mW
MSL	Moisture Sensitivity	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) Human Body Model Charged Device Model	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.

- Applicable to devices with outputs that may be tri-stated.
 Measured with minimum pad spacing on an FR4 board, using 10mm-by-1inch, 2 ounce copper trace no air flow per JESD51-7.
 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 II.

RECOMMENDED OPERATING CONDITIONS

Symbol	Cha	Characteristics			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
T _A	Operating Temperature Range		-55	+125	°C
t _r , t _f	Input Rise and Fall Time	$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$ $V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$ $V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$ $V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$	0 0 0	20 20 10 5	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}	Т	A = 25°	С	–55°C ≤ T	_A ≤ 125°C	
Symbol	Parameter	Condition	(V)	Min	Тур	Max	Min	Max	Units
V _{IH}	High-Level Input Volt	age	1.65 to 1.95	0.65 x V _{CC}	-	-	0.65 x V _{CC}	_	V
			2.3 to 5.5	0.70 x V _{CC}	-	-	0.70 x V _{CC}	-	
V_{IL}	Low-Level Input Volta	age	1.65 to 1.95	-	-	0.35 x V _{CC}	-	0.35 x V _{CC}	V
			2.3 to 5.5	-	-	0.30 x V _{CC}	-	0.30 x V _{CC}	
V _{OH}	High-Level Output Voltage	$\begin{aligned} V_{IN} &= V_{IH} \text{ or } V_{IL} \\ I_{OH} &= -100 \mu\text{A} \\ I_{OH} &= -4 \text{ mA} \\ I_{OH} &= -8 \text{ mA} \\ I_{OH} &= -12 \text{ mA} \\ I_{OH} &= -16 \text{ mA} \\ I_{OH} &= -24 \text{ mA} \\ I_{OH} &= -32 \text{ mA} \end{aligned}$	1.65 to 5.5 1.65 2.3 2.7 3.0 3.0 4.5	V _{CC} - 0.1 1.29 1.9 2.2 2.4 2.3 3.8	V _{CC} 1.4 2.1 2.4 2.7 2.5 4.0	- - - - -	V _{CC} - 0.1 1.29 1.9 2.2 2.4 2.3 3.8	- - - - -	V
V _{OL}	Low-Level Output Voltage	$\begin{aligned} &V_{IN} = V_{IH} \text{ or } V_{IL} \\ &I_{OL} = 100 \mu\text{A} \\ &I_{OL} = 4 \text{ mA} \\ &I_{OL} = 8 \text{ mA} \\ &I_{OL} = 12 \text{ mA} \\ &I_{OL} = 16 \text{ mA} \\ &I_{OL} = 24 \text{ mA} \\ &I_{OL} = 32 \text{ mA} \end{aligned}$	1.65 to 5.5 1.65 2.3 2.7 3.0 3.0 4.5	-	- 0.08 0.2 0.22 0.28 0.38 0.42	0.1 0.24 0.3 0.4 0.4 0.55		0.1 0.24 0.3 0.4 0.4 0.55	>
I _{IN}	Input Leakage Cur- rent	V _{IN} = 5.5 V or GND	1.65 to 5.5	-	-	±0.1	-	±1.0	μΑ
I _{OFF}	Power Off Leakage Current	V _{IN} = 5.5 V or V _{OUT} = 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.

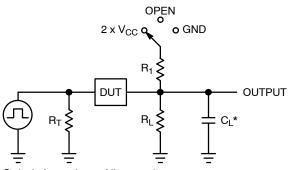
AC ELECTRICAL CHARACTERISTICS

			V_{CC} $T_A = 25^{\circ}C$ $-55^{\circ}C \le T_A \le 125^{\circ}C$				_Δ ≤ 125°C		
Symbol	Parameter	Condition	(V)	Min	Тур	Max	Min	Max	Units
t _{PLH} ,	Propagation Delay, A to Y	$R_L = 1 \text{ M}\Omega$, $C_L = 15 \text{ pF}$	1.65 to 1.95	_	6.3	12	_	12.7	ns
t _{PHL}	(Figures 3 and 4)	$R_L = 1 \text{ M}\Omega$, $C_L = 15 \text{ pF}$	2.3 to 2.7	_	3.4	7.0	_	7.5	
		$R_L = 1 \text{ M}\Omega$, $C_L = 15 \text{ pF}$	3.0 to 3.6	_	2.6	4.7	_	5.0	
		R_L = 500 Ω, C_L = 50 pF		_	3.3	5.2	_	5.5	
		$R_L = 1 \text{ M}\Omega$, $C_L = 15 \text{ pF}$	4.5 to 5.5	_	2.2	4.1	_	4.4	
		R_L = 500 Ω, C_L = 50 pF		-	2.7	4.5	-	4.8	

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} • V_{CC} • f_{in} + I_{CC}. C_{PD} is used to determine the no–load dynamic power consumption; P_D = C_{PD} • V_{CC}² • f_{in} + I_{CC} • 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 Ω) f=1 MHz

Figure 3. Test Circuit

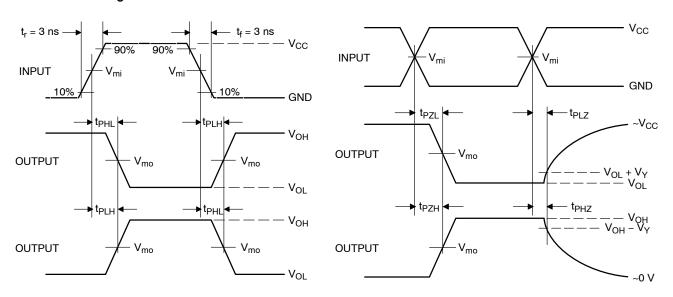


Figure 4. Switching Waveforms

		V _m		
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

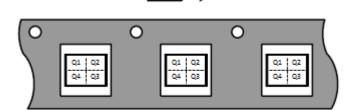
Device	Packages	Specific Device Code	Pin 1 Orientation (See below)	Shipping [†]
NL17SZ08DFT2G	SC-88A	L2	Q4	3000 / Tape & Reel
NL17SZ08DFT2G-Q*	SC-88A	L2	Q4	3000 / Tape & Reel
NL17SZ08DBVT1G	SC-74A	AH	Q4	3000 / Tape & Reel
NL17SZ08DBVT1G-Q*	SC-74A	AH	Q4	3000 / Tape & Reel
NL17SZ08XV5T2G	SOT-553	L2	Q4	4000 / Tape & Reel
NL17SZ08P5T5G	SOT-953	E (Rotated 180° CW)	Q2	8000 / Tape & Reel
NL17SZ08MU1TCG	UDFN6, 1.45 x 1.0, 0.5P	D (Rotated 180° CW)	Q4	3000 / Tape & Reel
NL17SZ08MU3TCG	UDFN6, 1.0 x 1.0, 0.35P	P (Rotated 180° CW)	Q4	3000 / 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.

*-Q Suffix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q100 Qualified and PPAP

Pin 1 Orientation in Tape and Reel

Direction of Feed



Capable.



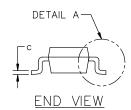


SC-74A-5 3.00x1.50x0.95, 0.95P CASE 318BQ ISSUE C

DATE 26 FEB 2024

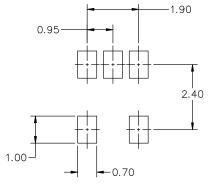


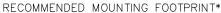
- 1. DIMENSIONING AND TOLERANCING CONFORM TO ASME Y14.5-2018.
- 2. ALL DIMENSION ARE IN MILLIMETERS (ANGLES IN DEGREES).
- 3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH THICKNESS. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.
- 4. DIMENSIONS D AND E1 DO NOT INCLUDE MOLD FLASH, PROTRUSIONS OF GATE BURRS. MOLD FLASH, PROTRUSIONS, OR GATE BURRS SHALL NOT EXCEED 0.15 PER SIDE.



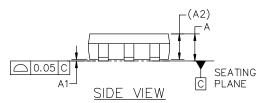
DIM			
DIN	MIN.	NOM.	MAX.
Α	0.90	1.00	1.10
A1	0.01	0.18	0.10
A2	(0.95 REF	
Ь	0.25	0.37	0.50
C	0.10	0.18	0.26
D	2.85	3.00	3.15
E	:	2.75 BSC	;
E1	1.35	1.50	1.65
е	(0.95 BSC	;
L	0.20	0.40	0.60
L1	0.62 REF.		
L2	0.25 BSC		
Θ	0.	5°	10°

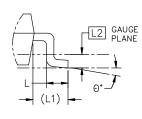
MILLIMETERS





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





DETAIL "A" SCALE 2:1

GENERIC MARKING DIAGRAM*



XXX = Specific Device Code

M = Date Code = Pb-Free Package

(Note: Microdot may be in either location)

*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.

DESCRIPTION:	SC-74A-5 3.00x1.50x0.95,	0.95P	PAGE 1 OF 1
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SC-88A (SC-70-5/SOT-353) CASE 419A-02 ISSUE M

DATE 11 APR 2023

NOTES:

- DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
- CONTROLLING DIMENSION: MILLIMETERS
- 419A-01 DBSDLETE, NEW STANDARD 419A-02
- DIMENSIONS D AND E1 DO NOT INCLUDE MOLD FLASH,

DIM	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

5X b

◆ 0.2 M B M

- PROTRUSIONS, OR GATE BURRS. MOLD FLASH, PROTRUSIONS, OR GATE BURRS SHALL NOT EXCEED 0.1016MM PER SIDE.

<u> </u>	0.50	5

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.

5. COLLECTOR

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

= Date Code

= Pb-Free Package

(Note: Microdot may be in either location)

STYLE 1:	STYLE 2:	STYLE 3:	STYLE 4:	STYLE 5:
PIN 1. BASE	PIN 1. ANODE	PIN 1. ANODE 1	PIN 1. SOURCE 1	PIN 1. CATHODE
2. EMITTER	2. EMITTER	2. N/C	2. DRAIN 1/2	2. COMMON ANODE
3. BASE	3. BASE	3. ANODE 2	SOURCE 1	3. CATHODE 2
4. COLLECTOR	COLLECTOR	CATHODE 2	4. GATE 1	4. CATHODE 3
COLLECTOR	CATHODE	CATHODE 1	5. GATE 2	5. CATHODE 4
STYLE 6:	STYLE 7:	STYLE 8:	STYLE 9:	Note: Please refer to datasheet for
PIN 1. EMITTER 2	PIN 1. BASE	PIN 1. CATHODE	PIN 1. ANODE	style callout. If style type is not called
2. BASE 2	EMITTER	2. COLLECTOR	2. CATHODE	
3. EMITTER 1	3. BASE	3. N/C	3. ANODE	out in the datasheet refer to the device
4. COLLECTOR	COLLECTOR	4. BASE	4. ANODE	datasheet pinout or pin assignment.
COLLECTOR 2/BASE 1	5. COLLECTOR	5. EMITTER	5. ANODE	datasheet pinout of pin assignment.

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DESCRIPTION:	SC-88A (SC-70-5/SOT-353)		PAGE 1 OF 1

5. EMITTER

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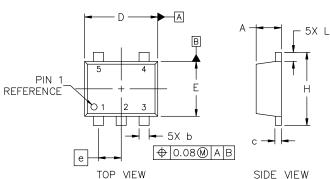
5. COLLECTOR 2/BASE 1





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

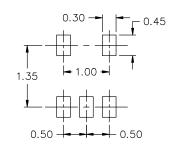
DATE 21 FEB 2024



NOTES:

- . DIMENSIONING AND TOLERANCING CONFORM TO ASME Y14.5-2018.
- . ALL DIMENSION ARE IN MILLIMETERS.
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DIM	M	LLIMETER	RS
	MIN.	NOM.	MAX.
А	0.50	0.55	0.60
Ь	0.17	0.22	0.27
O	0.08	0.13	0.18
О	1.55	1.60	1.65
E	1.15	1.20	1.25
е	0.50 BSC		
Н	1.55	1.60	1.65
L	0.10	0.20	0.30



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*



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(Note: Microdot may be in either location)

*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.

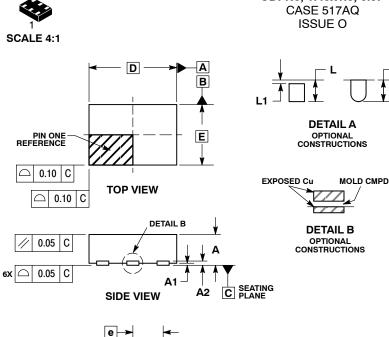
STYLE 1: PIN 1. BASE 2. EMITTER 3. BASE 4. COLLECTOR 5. COLLECTOR	STYLE 2: PIN 1. CATHODE 2. COMMON ANODE 3. CATHODE 2 4. CATHODE 3 5. CATHODE 4	STYLE 3: PIN 1. ANODE 1 2. N/C 3. ANODE 2 4. CATHODE 2 5. CATHODE 1	STYLE 4: PIN 1. SOURCE 1 2. DRAIN 1/2 3. SOURCE 1 4. GATE 1 5. GATE 2	STYLE 5: PIN 1. ANODE 2. EMITTER 3. BASE 4. COLLECTOR 5. CATHODE
STYLE 6: PIN 1. EMITTER 2 2. BASE 2 3. EMITTER 1 4. COLLECTOR 1 5. COLLECTOR 2/BASE 1	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	

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

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6X L

6X b

Ф

0.10 | C | A | B

0.05 C NOTE 3

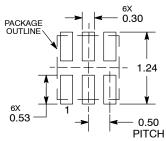
UDFN6, 1.45x1.0, 0.5P CASE 517AQ

DATE 15 MAY 2008

- NOTES:
 1. DIMENSIONING AND TOLERANCING PER
- ASME Y14.5M, 1994. CONTROLLING DIMENSION: MILLIMETERS.
- DIMENSION b APPLIES TO PLATED TERMINAL AND IS MEASURED BETWEEN 0.15 AND 0.30 mm FROM THE TERMINAL TIP.

	MILLIMETERS			
DIM	MIN	MAX		
Α	0.45	0.55		
A1	0.00	0.05		
A2	0.07	REF		
b	0.20	0.30		
D	1.45 BSC			
Е	1.00 BSC			
е	0.50 BSC			
Ĺ	0.30	0.40		
L1		0.15		

MOUNTING FOOTPRINT



DIMENSIONS: MILLIMETERS

GENERIC MARKING DIAGRAM*

BOTTOM VIEW



Χ = Specific Device Code

*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.

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DESCRIPTION:	UDFN6, 1.45x1.0, 0.5P		PAGE 1 OF 1

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^{*}For additional information on our Pb-Free strategy and soldering details, please download the **onsemi** Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.







UDFN6, 1x1, 0.35P CASE 517BX **ISSUE O**

DATE 18 MAY 2011

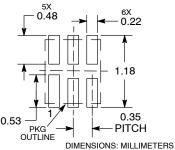


- 1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
- CONTROLLING DIMENSION: MILLIMETERS. DIMENSION b APPLIES TO PLATED TERMINAL AND IS MEASURED BETWEEN 0.15 AND 0.20 MM FROM TERMINAL TIP. 4. PACKAGE DIMENSIONS EXCLUSIVE OF
- BURRS AND MOLD FLASH.

	MILLIMETERS			
DIM	MIN	MAX		
Α	0.45	0.55		
A1	0.00	0.05		
A3	0.13	REF		
b	0.12 0.22			
D	1.00 BSC			
E	1.00 BSC			
е	0.35 BSC			
L	0.25	0.35		
L1	0.30	0.40		

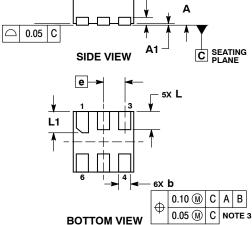
NOTES:

RECOMMENDED SOLDERING FOOTPRINT*



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

AB PIN ONE REFERENCE E 0.10 0.10 C **TOP VIEW** 0.05 C



GENERIC MARKING DIAGRAM*



X = Specific Device Code

M = Date Code

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^{*}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.

MILLIMFTERS

 $N\square M$

0.37

0.15

0.12

1.00

0.80

0.35 BSC

1.00

0.175

0.10

(REF)

-0.350

0.075

-0.200

MIN

0.34

0.10

0.07

0.95

0.75

0.95

0.125

0.05

DIM

Α

b

C

 \mathbb{D}

E

9 Н

L2

L3





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

0.85

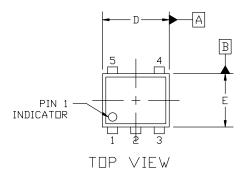
1.05

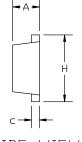
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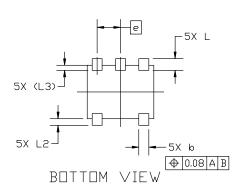
0.15

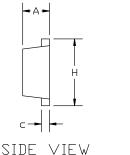
NOTES:

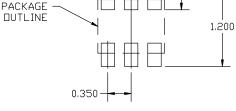
- DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 2018.
- CONTROLLING DIMENSION: MILLIMETERS.
- MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF THE BASE MATERIAL.
- 4. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR GATE BURRS.











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*



= 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 or may not be present. Some products may not follow the Generic Marking.

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DESCRIPTION:	SOT-953 1.00x0.80x0.37, 0.35P		PAGE 1 OF 1

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