

Non-Inverting 3-State Buffer

NL17SV125

The NL17SV125 is a single non-inverting 3-State buffer in tiny footprint packages. The device is designed to operate for $V_{CC} = 0.9\text{ V}$ to 3.6 V .

Features

- Designed for 0.9 V to 3.6 V V_{CC} Operation
- 1.6 ns t_{PD} at 3.3 V (Typ)
- Inputs/Outputs Over-Voltage Tolerant up to 3.6 V
- I_{OFF} Supports Partial Power Down Protection
- Source/Sink 24 mA at 3.3 V
- Available in SOT-353, SOT-553, SOT-953, SC-74A and UDFN Packages
- -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

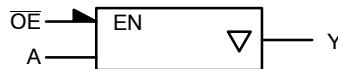


Figure 1. Logic Symbol

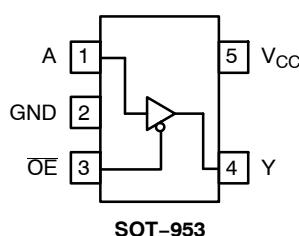
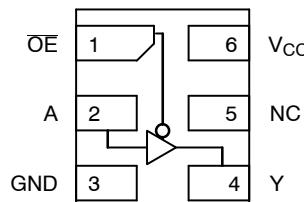
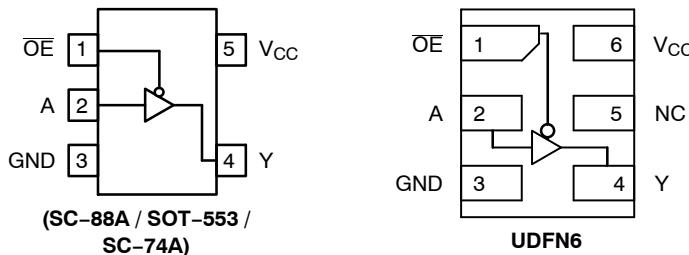
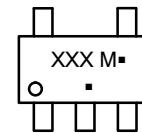


Figure 2. Pinout (Top View)

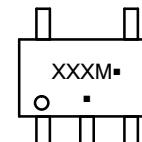
MARKING DIAGRAMS



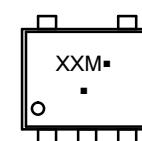
SC-74A
CASE 318BQ



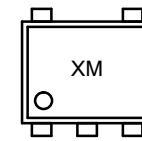
SC-88A
(SC-70-5/SOT-353)
CASE 419A-02



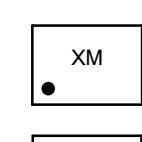
SOT-553, 5 LEAD
CASE 463B



SOT-953
CASE 527AE



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



UDFN6, 1x1, 0.35P
CASE 517BX

X, XX = 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.

ORDERING INFORMATION

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

NL17SV125

PIN ASSIGNMENT

Pin	SOT-953	SC88A / SOT553 / SC-74A	UDFN6
1	A	\overline{OE}	OE
2	GND	A	A
3	\overline{OE}	GND	GND
4	Y	Y	Y
5	V _{CC}	V _{CC}	NC
6	-	-	V _{CC}

FUNCTION TABLE

Input		Output
\overline{OE}	A	Y
L	L	L
L	H	H
H	X	Z

X = Don't Care

Z = High Impedance State

MAXIMUM RATINGS

Symbol	Characteristics	Value	Unit
V _{CC}	DC Supply Voltage	-0.5 to +4.3	V
V _{IN}	DC Input Voltage	-0.5 to +4.3	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 +4.3 -0.5 to +4.3	V
I _{IK}	DC Input Diode Current $V_{IN} < GND$	-50	mA
I _{OK}	DC Output Diode Current $V_{OUT} < GND$	-50	mA
I _{OUT}	DC Output Source/Sink Current	± 50	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
T _L	Lead Temperature, 1 mm from Case for 10 Seconds	260	°C
T _J	Junction Temperature Under Bias	+150	°C
θ_{JA}	Thermal Resistance (Note 2) SC-88A SOT-553 SOT-953 SC-74A UDFN6	377 324 254 320 154	°C/W
P _D	Power Dissipation in Still Air SC-88A SOT-553 SOT-953 SC-74A UDFN6	332 386 491 390 812	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 10 mm-by-1 inch, 2 ounce copper trace no air flow per JESD51-7.
- HBM tested to EIA / JESD22-A114-A. CDM tested to JESD22-C101-A. JEDEC recommends that ESD qualification to EIA/JESD22-A115A (Machine Model) be discontinued.
- Tested to EIA/JESD78 Class II.

RECOMMENDED OPERATING CONDITIONS

Symbol	Parameter	Min	Max	Unit
V_{CC}	Positive DC Supply Voltage	0.9	3.6	V
V_{IN}	DC Input Voltage	0	3.6	V
V_{OUT}	DC Output Voltage	0 0 0	V_{CC} 3.6 3.6	
T_A	Operating Temperature Range	-55	+125	°C
t_r, t_f	Input Transition Rise and Fall Time	0	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

Symbol	Parameter	Condition	V_{CC} (V)	$T_A = 25^\circ C$			$T_A = -55^\circ C \text{ to } +125^\circ C$		Unit
				Min	Typ	Max	Min	Max	
V_{IH}	High-Level Input Voltage		0.9	-	0.5	-	-	-	V
			1.1 to 1.3	$0.65 \times V_{CC}$	-	-	$0.65 \times V_{CC}$	-	
			1.4 to 1.6	$0.65 \times V_{CC}$	-	-	$0.65 \times V_{CC}$	-	
			1.65 to 1.95	$0.65 \times V_{CC}$	-	-	$0.65 \times V_{CC}$	-	
			2.3 to < 2.7	1.6	-	-	1.6	-	
			2.7 to 3.6	2.0	-	-	2.0	-	
V_{IL}	Low-Level Input Voltage		0.9	-	0.5	-	-	-	V
			1.1 to 1.3	-	-	$0.35 \times V_{CC}$	-	$0.35 \times V_{CC}$	
			1.4 to 1.6	-	-	$0.35 \times V_{CC}$	-	$0.35 \times V_{CC}$	
			1.65 to 1.95	-	-	$0.35 \times V_{CC}$	-	$0.35 \times V_{CC}$	
			2.3 to < 2.7	-	-	0.7	-	0.7	
			2.7 to 3.6	-	-	0.8	-	0.8	
V_{OH}	High-Level Output Voltage	$V_{IN} = V_{IH}$ or V_{IL}							V
		$I_{OH} = -100 \mu A$	0.9	-	$V_{CC} - 0.1$	-	-	-	
			1.1 to 1.3	$V_{CC} - 0.1$	-	-	$V_{CC} - 0.1$	-	
			1.4 to 1.6	$V_{CC} - 0.1$	-	-	$V_{CC} - 0.1$	-	
			1.65 to 1.95	$V_{CC} - 0.2$	-	-	$V_{CC} - 0.2$	-	
			2.3 to < 2.7	$V_{CC} - 0.2$	-	-	$V_{CC} - 0.2$	-	
			2.7 to 3.6	$V_{CC} - 0.2$	-	-	$V_{CC} - 0.2$	-	
		$I_{OH} = -2 mA$	1.1 to 1.3	$0.75 \times V_{CC}$	-	-	$0.75 \times V_{CC}$	-	
			1.4 to 1.6	$0.75 \times V_{CC}$	-	-	$0.75 \times V_{CC}$	-	
			1.65 to 1.95	1.25	-	-	1.25	-	
		$I_{OH} = -6 mA$	2.3 to 2.7	2.0	-	-	2.0	-	
			2.7 to 3.6	2.2	-	-	2.2	-	
		$I_{OH} = -12 mA$	2.3 to 2.7	1.8	-	-	1.8	-	
			2.7 to 3.6	2.2	-	-	2.2	-	
		$I_{OH} = -18 mA$	2.3 to 2.7	1.7	-	-	1.7	-	
			2.7 to 3.6	2.4	-	-	2.4	-	
		$I_{OH} = -24 mA$	2.7 to 3.6	2.2	-	-	2.2	-	

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DC ELECTRICAL CHARACTERISTICS (continued)

Symbol	Parameter	Condition	V _{CC} (V)	T _A = 25°C			T _A = -55°C to +125°C		Unit
				Min	Typ	Max	Min	Max	
V _{OL}	Low-Level Output Voltage	V _{IN} = V _{IH} or V _{IL}							V
		I _{OL} = 100 µA	0.9	–	0.1	–	–	–	
			1.1 to 1.3	–	–	0.1	–	0.1	
			1.4 to 1.6	–	–	0.1	–	0.1	
			1.65 to 1.95	–	–	0.2	–	0.2	
			2.3 to < 2.7	–	–	0.2	–	0.2	
			2.7 to 3.6	–	–	0.2	–	0.2	
		I _{OL} = 2 mA	1.1 to 1.3	–	–	0.25 × V _{CC}	–	0.25 × V _{CC}	
			1.4 to 1.6	–	–	0.25 × V _{CC}	–	0.25 × V _{CC}	
		I _{OL} = 6 mA	1.65 to 1.95	–	–	0.3	–	0.3	
			2.3 to 2.7	–	–	0.3	–	0.3	
		I _{OL} = 12 mA	2.3 to 2.7	–	–	0.4	–	0.4	
			2.7 to 3.6	–	–	0.4	–	0.4	
		I _{OL} = 18 mA	2.3 to 2.7	–	–	0.6	–	0.6	
			2.7 to 3.6	–	–	0.4	–	0.4	
		I _{OL} = 24 mA	2.7 to 3.6	–	–	0.55	–	0.55	
I _{IN}	Input Leakage Current	V _{IN} = 3.6 V or GND	0.9 to 3.6	–	–	±0.1	–	±0.9	µA
I _{OZ}	3-State Output Leakage Current	V _{OUT} = 0 V to 3.6 V	0.9 to 3.6	–	–	±0.5	–	±5.0	µA
I _{OFF}	Power Off Leakage Current	V _{IN} = 3.6 V or V _{OUT} = 3.6 V	0	–	–	1.0	–	5.0	µA
I _{CC}	Quiescent Supply Current	V _{IN} = V _{CC} or GND	0.9 to 3.6	–	–	0.9	–	5.0	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.

AC ELECTRICAL CHARACTERISTICS

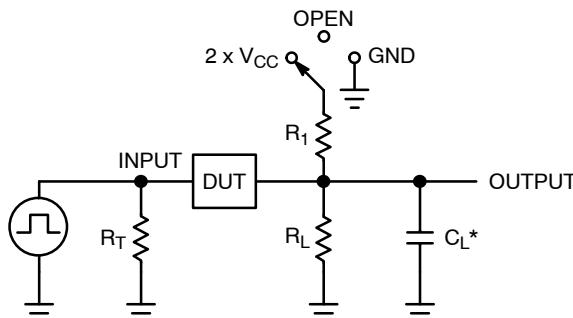
Symbol	Parameter	Condition	V _{CC} (V)	T _A = 25°C			T _A = -55°C to +125°C		Unit
				Min	Typ	Max	Min	Max	
t _{PLH} , t _{PHL}	Propagation Delay, A to Y (Figures 3 and 4)	R _L = 1 MΩ, C _L = 15 pF	0.9	—	24.5	—	—	—	ns
			1.10 to 1.30	—	7.3	16.2	—	19.0	
			1.40 to 1.60	—	3.9	5.3	—	5.7	
		R _L = 500 Ω, C _L = 30 pF	1.65 to 1.95	—	2.7	4.3	—	4.6	
			2.3 to 2.7	—	1.9	2.8	—	3.0	
			2.7 to 3.6	—	1.6	2.6	—	2.8	
t _{PZH} , t _{PZL}	Output Enable Time, OE to Y (Figures 3 and 4)	C _L = 30 pF R ₁ = R _L = 1 kΩ	0.9	—	21.3	—	—	—	ns
			1.10 to 1.30	—	6.3	15.5	—	18.3	
			1.40 to 1.60	—	4.0	6.0	—	7.5	
			1.65 to 1.95	—	3.0	4.5	—	5.0	
			2.3 to 2.7	—	2.0	3.0	—	3.4	
			2.7 to 3.6	—	1.2	2.6	—	2.9	
t _{PHZ} , t _{PLZ}	Output Disable Time, OE to Y (Figures 3 and 4)	C _L = 30 pF R ₁ = R _L = 1 kΩ	0.9	—	14	—	—	—	ns
			1.10 to 1.30	—	5.0	9.5	—	14.0	
			1.40 to 1.60	—	3.0	5.5	—	7.0	
			1.65 to 1.95	—	2.0	5.6	—	5.8	
			2.3 to 2.7	—	1.5	4.2	—	5.0	
			2.7 to 3.6	—	1.0	3.9	—	4.2	

CAPACITIVE CHARACTERISTICS

Symbol	Parameter	Test Condition	Typical (T _A = 25°C)	Unit
C _{IN}	Input Capacitance	V _{CC} = 0 V	2.0	pF
C _{OUT}	Output Capacitance	V _{CC} = 0 V	4.5	pF
C _{PD}	Power Dissipation Capacitance (Note 5)	10 MHz, V _{CC} = 0.9 to 3.6 V, V _{IN} = 0 V or V _{CC}	20	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}.

NL17SV125



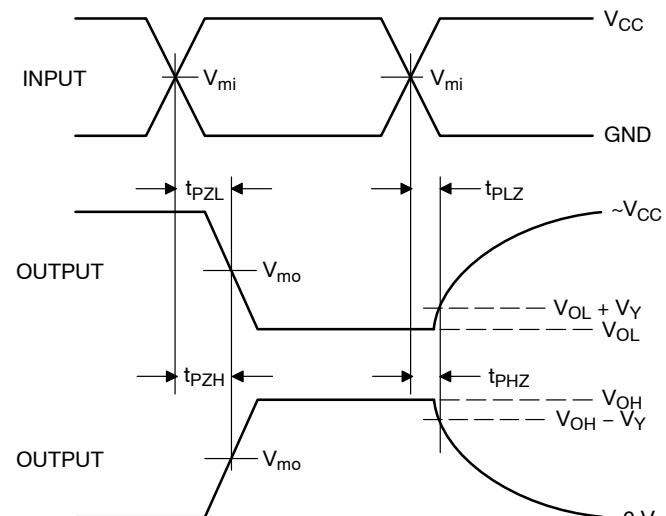
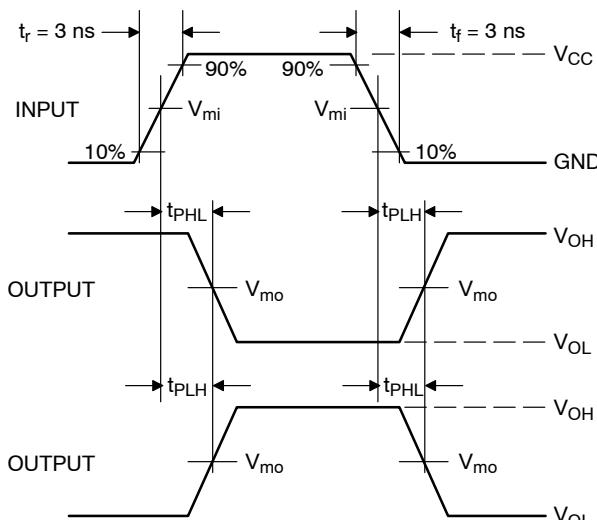
C_L includes probe and jig capacitance

R_T is Z_{OUT} of pulse generator (typically 50 Ω)

f = 1 MHz

Test	Switch Position
t_{PLH} / t_{PHL}	Open
t_{PLZ} / t_{PZL}	$2 \times V_{CC}$
t_{PHZ} / t_{PZH}	GND

Figure 3. Test Circuit



V_{CC}, V	V_{mi}, V	V_{mo}, V		V_Y, V
		t_{PLH}, t_{PHL}	$t_{PZL}, t_{PLZ}, t_{PZH}, t_{PHZ}$	
0.9	$V_{CC} / 2$	$V_{CC} / 2$	$V_{CC} / 2$	0.1
1.1 to 1.3	$V_{CC} / 2$	$V_{CC} / 2$	$V_{CC} / 2$	0.1
1.4 to 1.6	$V_{CC} / 2$	$V_{CC} / 2$	$V_{CC} / 2$	0.1
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	1.5	1.5	1.5	0.3

Figure 4. Switching Waveforms

NL17SV125

ORDERING INFORMATION

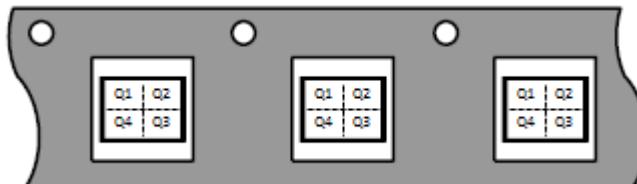
Device	Package	Marking	Pin 1 Orientation (See below)	Shipping [†]
NL17SV125DFT2G (Contact onsemi)	SC-88A	CC	Q4	3000 / Tape & Reel
NL17SV125DFT2G-Q*	SC-88A	CC	Q4	3000 / Tape & Reel
NL17SV125XV5T2G (Contact onsemi)	SOT-553	TBD	Q4	4000 / Tape & Reel
NL17SV125P5T5G (Contact onsemi)	SOT-953	TBD	Q2	8000 / Tape & Reel
NL17SV125DBVT1G (Contact onsemi)	SC-74A	TBD	Q4	3000 / Tape & Reel
NL17SV125MU1TCG (Contact onsemi)	UDFN6, 1.45 x 1.0, 0.5P	TBD	Q4	3000 / Tape & Reel
NL17SV125MU3TCG (Contact onsemi)	UDFN6, 1.0 x 1.0, 0.35P	TBD	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 Capable.

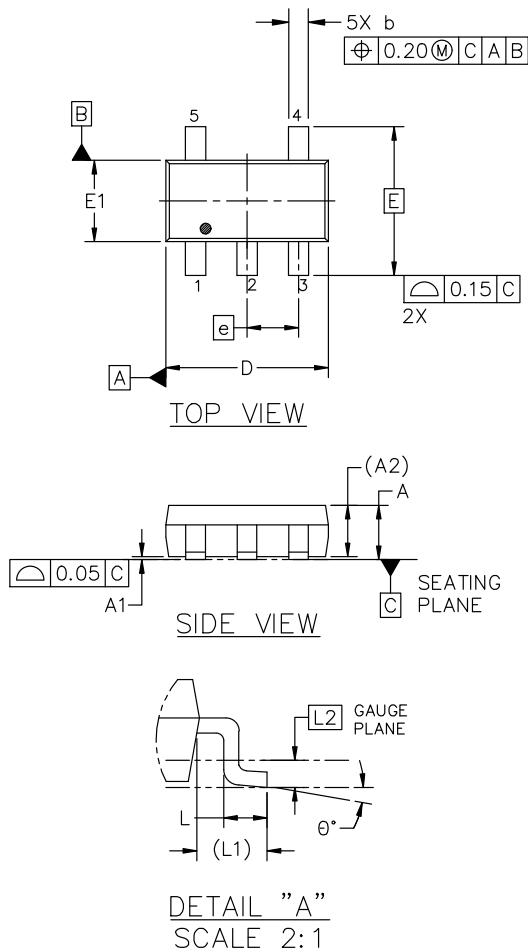
Pin 1 Orientation in Tape and Reel

Direction of Feed



PACKAGE DIMENSIONS

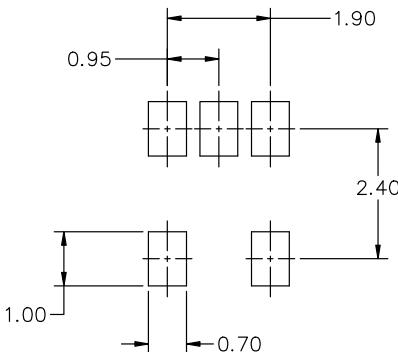
SC-74A-5 3.00x1.50x0.95, 0.95P

CASE 318BQ
ISSUE C

NOTES:

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.

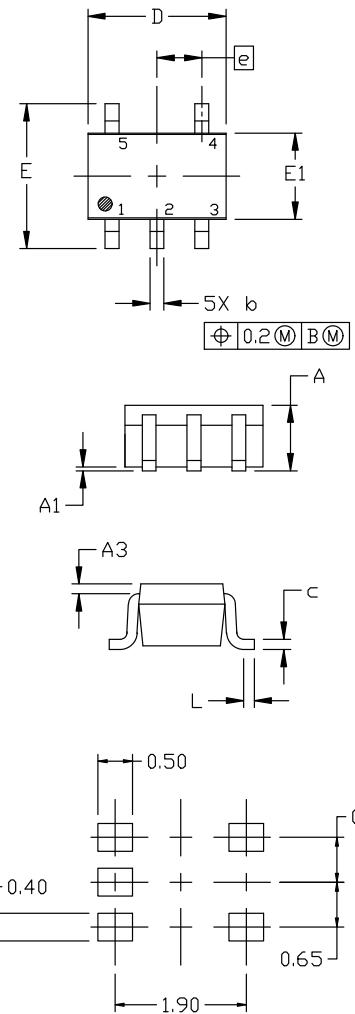
DIM	MILLIMETERS		
	MIN.	NOM.	MAX.
A	0.90	1.00	1.10
A1	0.01	0.18	0.10
A2	0.95 REF.		
b	0.25	0.37	0.50
c	0.10	0.18	0.26
D	2.85	3.00	3.15
E	2.75 BSC		
E1	1.35	1.50	1.65
e	0.95 BSC		
L	0.20	0.40	0.60
L1	0.62 REF.		
L2	0.25 BSC		
θ	0°	5°	10°



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.

PACKAGE DIMENSIONS

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

DIM	MILLIMETERS		
	MIN.	NOM.	MAX.
A	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
E	2.00	2.10	2.20
E1	1.15	1.25	1.35
e 0.65 BSC			
L	0.10	0.15	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.

STYLE 1:
PIN 1. BASE
2. Emitter
3. BASE
4. COLLECTOR
5. 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
5. COLLECTOR 2/BASE 1

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

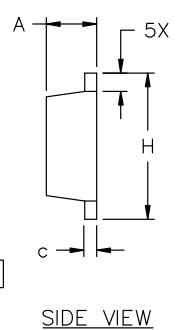
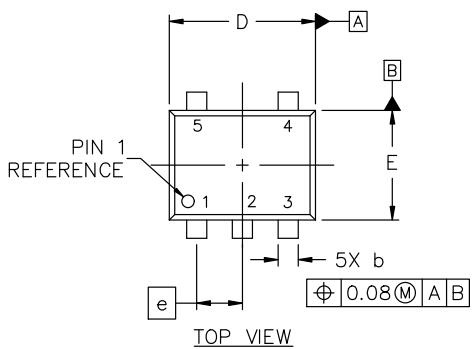
STYLE 8:
PIN 1. CATHODE
2. COLLECTOR
3. N/C
4. BASE
5. Emitter

STYLE 9:
PIN 1. ANODE
2. CATHODE
3. ANODE
4. ANODE
5. ANODE

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.

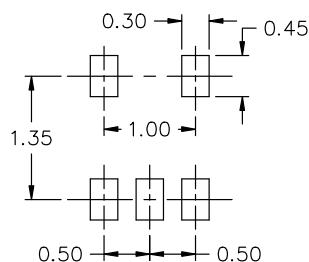
PACKAGE DIMENSIONS

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



NOTES:

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



DIM	MILLIMETERS		
	MIN.	NOM.	MAX.
A	0.50	0.55	0.60
b	0.17	0.22	0.27
c	0.08	0.13	0.18
D	1.55	1.60	1.65
e	0.50 BSC		
H	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, SODERRM/D.

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

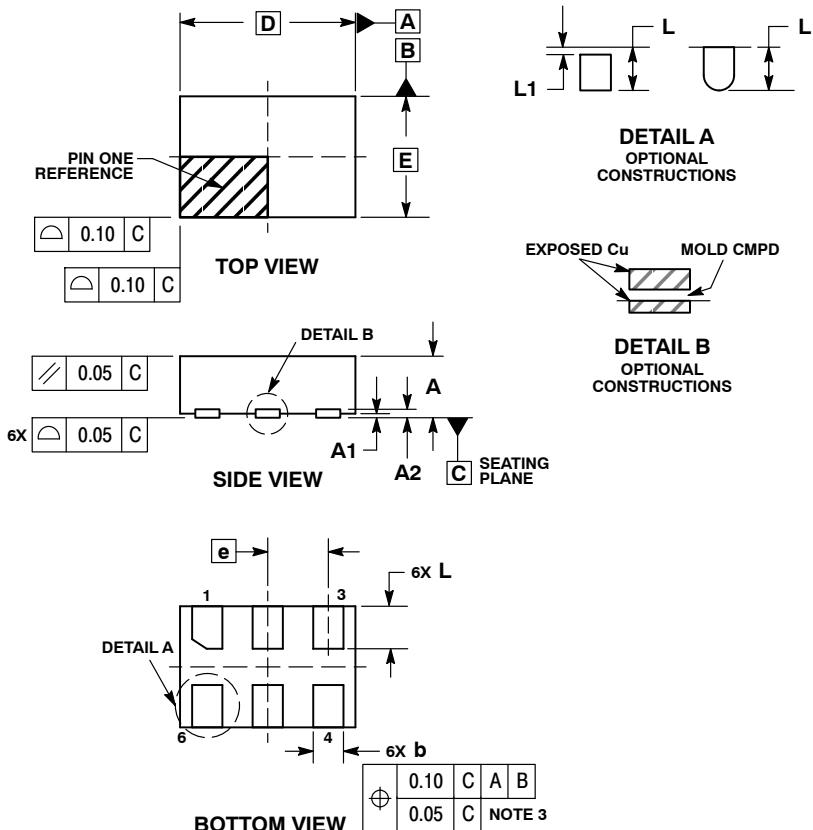
STYLE 7:
PIN 1. BASE
2. Emitter
3. Base
4. Collector
5. Collector

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

PACKAGE DIMENSIONS

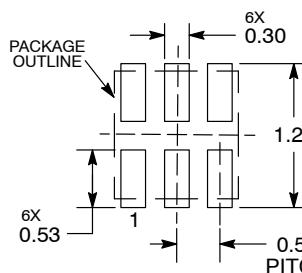
UDFN6, 1.45x1.0, 0.5P
CASE 517AQ
ISSUE O



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

MILLIMETERS		
DIM	MIN	MAX
A	0.45	0.55
A1	0.00	0.05
A2	0.07 REF	
b	0.20	0.30
D	1.45 BSC	
E	1.00 BSC	
e	0.50 BSC	
L	0.30	0.40
L1	---	0.15

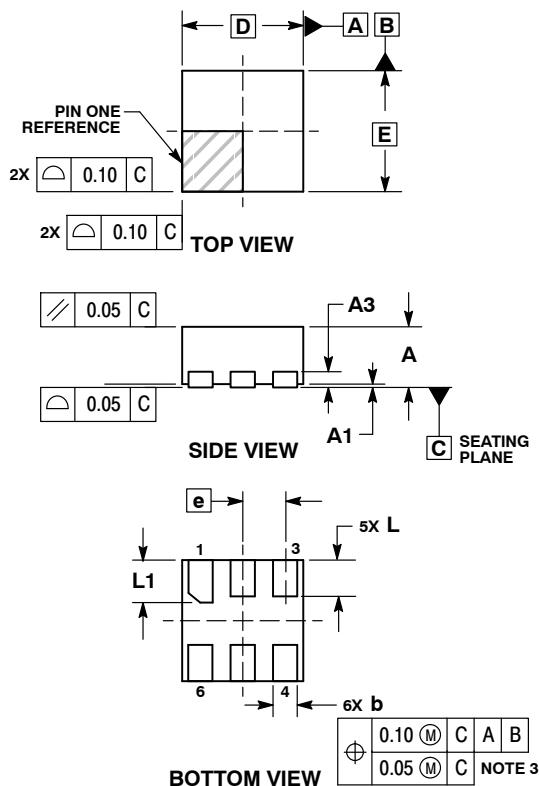
MOUNTING FOOTPRINT



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

PACKAGE DIMENSIONS

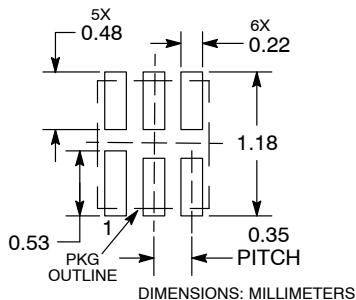
UDFN6, 1x1, 0.35P
CASE 517BX
ISSUE O



- NOTES:
1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
 2. CONTROLLING DIMENSION: MILLIMETERS.
 3. 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.

DIM	MILLIMETERS	
	MIN	MAX
A	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	
e	0.35 BSC	
L	0.25	0.35
L1	0.30	0.40

**RECOMMENDED
SOLDERING FOOTPRINT***



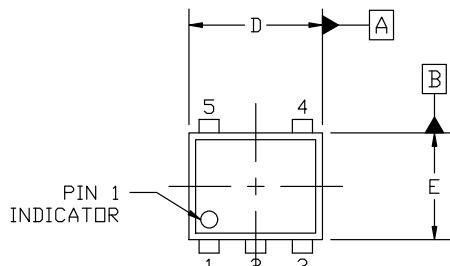
*For additional information on our Pb-Free strategy and soldering details, please download the **onsemi** Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

PACKAGE DIMENSIONS

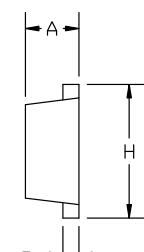
SOT-953 1.00x0.80x0.37, 0.35P
CASE 527AE
ISSUE F

NOTES:

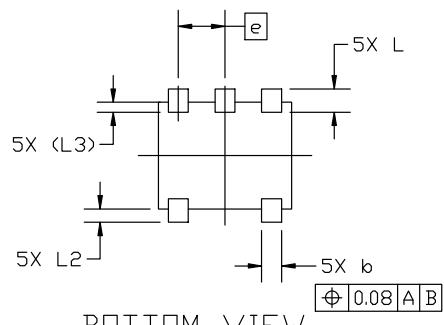
1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 2018.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH.
MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS
OF THE BASE MATERIAL.
4. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH,
PROTRUSIONS, OR GATE BURRS.



TOP VIEW

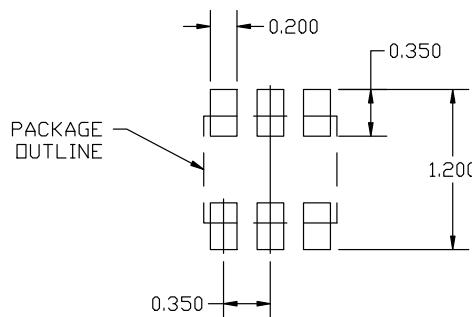


SIDE VIEW



BOTTOM VIEW

MILLIMETERS			
DIM	MIN	NOM	MAX
A	0.34	0.37	0.40
b	0.10	0.15	0.20
C	0.07	0.12	0.17
D	0.95	1.00	1.05
E	0.75	0.80	0.85
e	0.35 BSC		
H	0.95	1.00	1.05
L	0.125	0.175	0.225
L2	0.05	0.10	0.15
L3	0.075 (REF)		



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, SOLDERMM/D.

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