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TinyLogic ULP-A Buffer with Three-State Output



ON Semiconductor®

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NC7SP126

The NC7SP126 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
- 2.6 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 2.6 mA at 3.3 V
- Available in SC-88A and MicroPak™ Packages
- These Devices are Pb-Free, Halogen Free/BFR Free and are RoHS Compliant

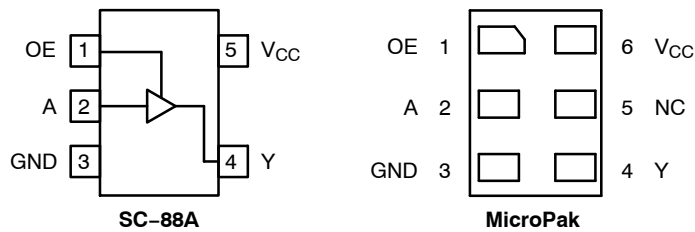


Figure 1. Pinout Diagrams (Top Views)

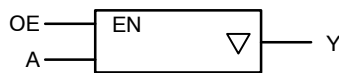


Figure 2. Logic Symbol

PIN ASSIGNMENT

Pin	SC88A	MicroPak
1	OE	OE
2	A	A
3	GND	GND
4	Y	Y
5	V_{CC}	N.C.
6	-	V_{CC}

N.C. = No Connect

MARKING DIAGRAMS

**SIP6 1.45X1.0
MicroPak
CASE 127EB**

**UDFN6
MicroPak2
CASE 517DP**

**SC-88A
CASE 419A-02**

CC = Specific Device Code
 KK = 2-Digit Lot Run Traceability Code
 XY = 2-Digit Date Code
 Z = Assembly Plant Code

XXX = Specific Device Code
 M = Date Code
 ■ = Pb-Free Package

ORDERING INFORMATION

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

FUNCTION TABLE

Input		Output
OE	A	Y
L	X	Z
H	L	L
H	H	H

X = Don't Care
 Z = High Impedance State

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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	$^{\circ}C$
T_L	Lead Temperature, 1 mm from Case for 10 Seconds	260	$^{\circ}C$
T_J	Junction Temperature Under Bias	+150	$^{\circ}C$
θ_{JA}	Thermal Resistance (Note 2)	SC-88A MicroPak 377 154	$^{\circ}C/W$
P_D	Power Dissipation in Still Air	SC-88A MicroPak 332 812	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	4000 2000	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 10 mm-by-1 inch, 2 ounce copper trace no air flow per JESD51-7.
3. 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.
4. Tested to EIA/JESD78 Class II.

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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	Active-Mode (High or Low State)	V_{CC}			
		Tri-State Mode (Note 1)	3.6			
		Power-Down Mode ($V_{CC} = 0$ V)	3.6			
T_A	Operating Temperature Range	-40	+85	°C		
t_r, t_f	Input Transition Rise and Fall Time	$V_{CC} = 3.3$ V \pm 0.3 V		0	10	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)	$T_A = 25^\circ\text{C}$			$T_A = -40^\circ\text{C to } +85^\circ\text{C}$		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	-		
			3.0 to 3.6	2.1	-	-	2.1	-		
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		
			3.0 to 3.6	-	-	0.9	-	0.9		
V_{OH}	High-Level Output Voltage	$V_{IN} = V_{IH}$ or V_{IL}							V	
		$I_{OH} = -20 \mu\text{A}$	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	$V_{CC} - 0.1$	-	-	$V_{CC} - 0.1$	-		-
			2.3 to 2.7	$V_{CC} - 0.1$	-	-	$V_{CC} - 0.1$	-		-
			3.0 to 3.6	$V_{CC} - 0.1$	-	-	$V_{CC} - 0.1$	-		-
		$I_{OH} = -0.5$ mA	1.1 to 1.3	$0.75 \times V_{CC}$	-	-	$0.70 \times V_{CC}$	-		-
		$I_{OH} = -1$ mA	1.4 to 1.6	1.07	-	-	0.99	-		-
		$I_{OH} = -1.5$ mA	1.65 to 1.95	1.24	-	-	1.22	-		-
		$I_{OH} = -2.1$ mA	2.3 to 2.7	1.95	-	-	1.87	-		-
		$I_{OH} = -2.6$ mA	3.0 to 3.6	2.61	-	-	2.55	-		-

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DC ELECTRICAL CHARACTERISTICS (continued)

Symbol	Parameter	Condition	V _{CC} (V)	T _A = 25°C			T _A = -40°C to +85°C		Unit
				Min	Typ	Max	Min	Max	
V _{OL}	Low-Level Output Voltage	V _{IN} = V _{IH} or V _{IL} I _{OL} = 20 μA	0.9	-	0.1	-	-	-	V
			1.1 to 1.3	-	-	0.1	-	0.1	
			1.4 to 1.6	-	-	0.1	-	0.1	
			1.65 to 1.95	-	-	0.1	-	0.1	
			2.3 to 2.7	-	-	0.1	-	0.1	
			3.0 to 3.6	-	-	0.1	-	0.1	
		I _{OL} = 0.5 mA	1.1 to 1.3	-	-	0.3 x V _{CC}	-	0.3 x V _{CC}	
		I _{OL} = 1 mA	1.4 to 1.6	-	-	0.31	-	0.37	
		I _{OL} = 1.5 mA	1.65 to 1.95	-	-	0.31	-	0.35	
		I _{OL} = 2.1 mA	2.3 to 2.7	-	-	0.31	-	0.33	
I _{OL} = 2.6 mA	3.0 to 3.6	-	-	0.31	-	0.33			
I _{IN}	Input Leakage Current	V _{IN} = 0 V to 3.6 V	0.9 to 3.6	-	-	±0.1	-	±0.5	μA
I _{OZ}	3-State Output Leakage Current	V _{IN} = V _{IH} or V _{IL} V _{OUT} = 0 V to 3.6 V	0.9 to 3.6	-	-	±0.5	-	±0.5	μA
I _{OFF}	Power Off Leakage Current	V _{IN} = 0 V to 3.6 V or V _{OUT} = 0 V to 3.6 V	0	-	-	0.5	-	0.5	μA
I _{CC}	Quiescent Supply Current	V _{IN} = V _{CC} or GND	0.9 to 3.6	-	-	0.9	-	0.9	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 = -40°C to +85°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 = 10 pF	0.9	-	50.7	-	-	-	ns
			1.10 to 1.30	-	13.4	27.6	-	39.6	
			1.40 to 1.60	-	6.8	11.2	-	14.5	
			1.65 to 1.95	-	4.8	8.6	-	11.6	
			2.3 to 2.7	-	3.1	6.3	-	8.2	
			3.0 to 3.6	-	2.6	5.3	-	7.2	
t _{PZH} , t _{PZL}	Output Enable Time, OE to Y (Figures 3 and 4)	R ₁ = R _L = 5 kΩ C _L = 10 pF	0.9	-	50.6	-	-	-	ns
			1.10 to 1.30	-	13.2	26.7	-	40.4	
			1.40 to 1.60	-	6.7	11.9	-	14.8	
			1.65 to 1.95	-	4.7	9.7	-	12.3	
			2.3 to 2.7	-	3.0	7.7	-	10.5	
			3.0 to 3.6	-	2.5	6.9	-	8.6	
t _{PHZ} , t _{PLZ}	Output Disable Time, OE to Y (Figures 3 and 4)	R ₁ = R _L = 5 kΩ C _L = 10 pF	0.9	-	14.6	-	-	-	ns
			1.10 to 1.30	-	8.2	20.5	-	42.0	
			1.40 to 1.60	-	6.3	15.3	-	18.0	
			1.65 to 1.95	-	6.1	14.7	-	17.8	
			2.3 to 2.7	-	5.8	13.7	-	15.0	
			3.0 to 3.6	-	5.7	13.5	-	14.8	

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AC ELECTRICAL CHARACTERISTICS (continued)

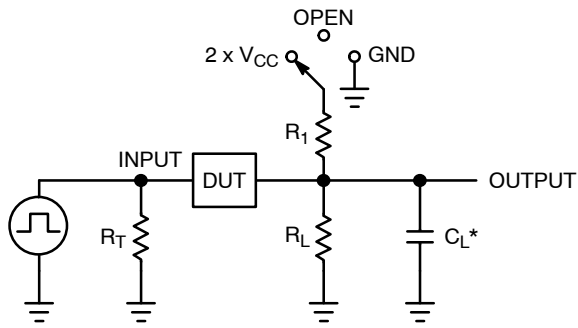
Symbol	Parameter	Condition	V _{CC} (V)	T _A = 25°C			T _A = -40°C to +85°C		Unit
				Min	Typ	Max	Min	Max	
t _{PLH} , t _{PHL}	Propagation Delay, A to Y (Figures 3 and 4)	R _L = 1 MΩ, C _L = 15 pF	0.9	-	52.3	-	-	-	ns
			1.10 to 1.30	-	14.0	28.6	-	42.5	
			1.40 to 1.60	-	7.2	11.8	-	15.4	
			1.65 to 1.95	-	5.2	9.1	-	12.2	
			2.3 to 2.7	-	3.4	6.6	-	8.6	
			3.0 to 3.6	-	2.8	5.6	-	7.5	
t _{PZH} , t _{PZL}	Output Enable Time, OE to Y (Figures 3 and 4)	R ₁ = R _L = 5 kΩ C _L = 15 pF	0.9	-	52.2	-	-	-	ns
			1.10 to 1.30	-	13.7	27.9	-	43.3	
			1.40 to 1.60	-	7.1	12.5	-	15.5	
			1.65 to 1.95	-	5.1	10.2	-	12.9	
			2.3 to 2.7	-	3.2	8.0	-	9.9	
			3.0 to 3.6	-	2.7	7.2	-	8.9	
t _{PHZ} , t _{PLZ}	Output Disable Time, OE to Y (Figures 3 and 4)	R ₁ = R _L = 5 kΩ C _L = 15 pF	0.9	-	16.1	-	-	-	ns
			1.10 to 1.30	-	9.3	21.6	-	44.9	
			1.40 to 1.60	-	7.1	15.9	-	18.8	
			1.65 to 1.95	-	7.1	15.2	-	18.2	
			2.3 to 2.7	-	6.8	14.1	-	15.4	
			3.0 to 3.6	-	6.5	13.9	-	15.1	
t _{PLH} , t _{PHL}	Propagation Delay, A to Y (Figures 3 and 4)	R _L = 1 MΩ, C _L = 30 pF	0.9	-	56.9	-	-	-	ns
			1.10 to 1.30	-	15.6	32.0	-	51.1	
			1.40 to 1.60	-	8.6	13.8	-	17.7	
			1.65 to 1.95	-	6.3	10.6	-	14.0	
			2.3 to 2.7	-	4.1	7.6	-	9.9	
			3.0 to 3.6	-	3.4	6.4	-	8.9	
t _{PZH} , t _{PZL}	Output Enable Time, OE to Y (Figures 3 and 4)	R ₁ = R _L = 5 kΩ C _L = 30 pF	0.9	-	56.8	-	-	-	ns
			1.10 to 1.30	-	15.4	31.6	-	51.9	
			1.40 to 1.60	-	8.5	14.5	-	17.9	
			1.65 to 1.95	-	6.2	11.7	-	14.7	
			2.3 to 2.7	-	3.9	9.1	-	11.1	
			3.0 to 3.6	-	3.3	8.1	-	10.1	
t _{PHZ} , t _{PLZ}	Output Disable Time, OE to Y (Figures 3 and 4)	R ₁ = R _L = 5 kΩ C _L = 30 pF	0.9	-	20.3	-	-	-	ns
			1.10 to 1.30	-	12.3	24.8	-	53.5	
			1.40 to 1.60	-	10.2	20.5	-	21.1	
			1.65 to 1.95	-	10.2	19.5	-	20.5	
			2.3 to 2.7	-	9.5	18.5	-	19.5	
			3.0 to 3.6	-	8.6	14.8	-	16.3	

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	4.0	pF
C _{PD}	Power Dissipation Capacitance (Note 5)	f = 10 MHz, V _{CC} = 0.9 to 3.6 V, V _{IN} = 0 V or V _{CC}	8.0	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}.

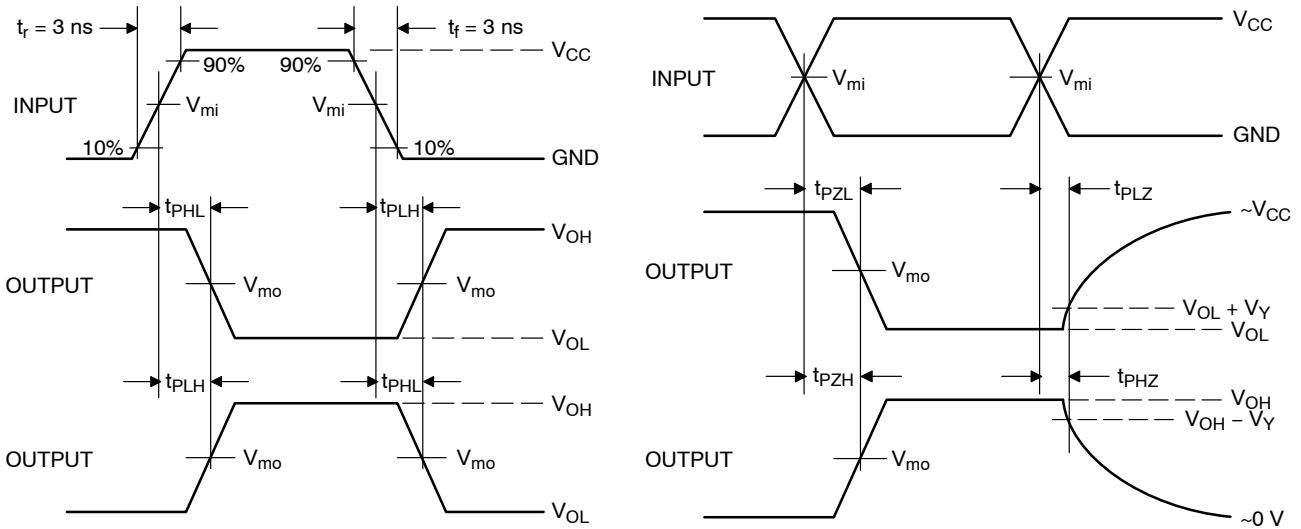
NC7SP126



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
0.9	$V_{CC} / 2$	$V_{CC} / 2$	0.1
1.1 to 1.3	$V_{CC} / 2$	$V_{CC} / 2$	0.1
1.4 to 1.6	$V_{CC} / 2$	$V_{CC} / 2$	0.1
1.65 to 1.95	$V_{CC} / 2$	$V_{CC} / 2$	0.15
2.3 to 2.7	$V_{CC} / 2$	$V_{CC} / 2$	0.15
3.0 to 3.6	1.5	1.5	0.3

Figure 4. Switching Waveforms

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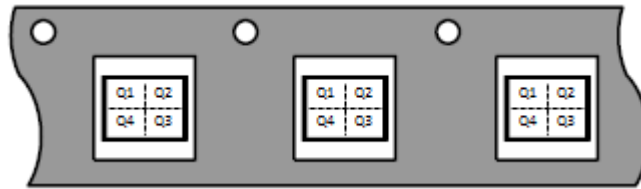
ORDERING INFORMATION

Device	Package	Marking	Pin 1 Orientation (See below)	Shipping†
NC7SP126P5X	SC-88A	P26	Q4	3000 / Tape & Reel
NC7SP126L6X	MicroPak	L6	Q4	5000 / Tape & Reel
NC7SP126FHX	MicroPak2	L6	Q4	5000 / 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

Direction of Feed

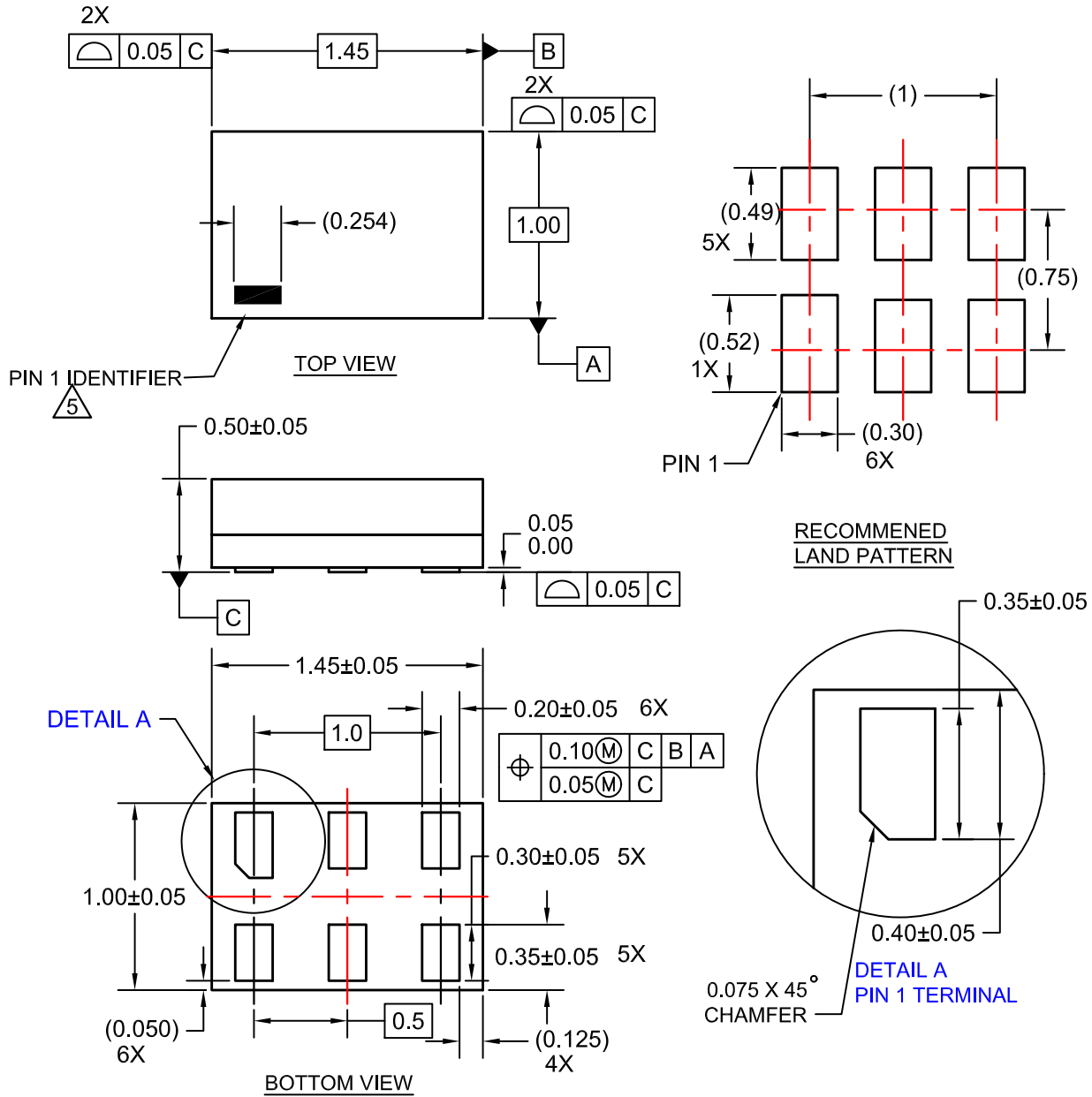


MicroPak is trademark of Semiconductor Components Industries, LLC (SCILLC) or its subsidiaries in the United States and/or other countries.

NC7SP126

PACKAGE DIMENSIONS

SIP6 1.45X1.0
CASE 127EB
ISSUE O



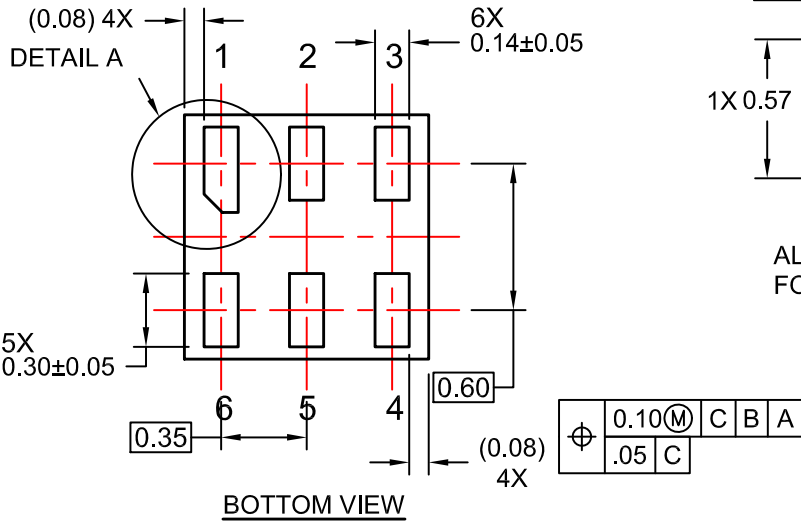
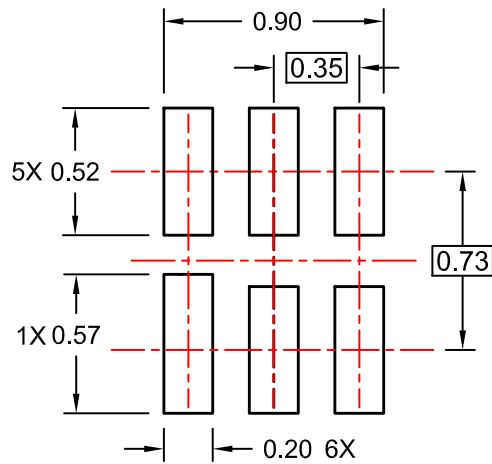
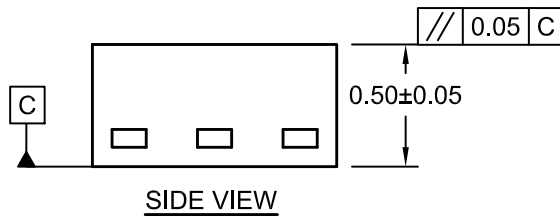
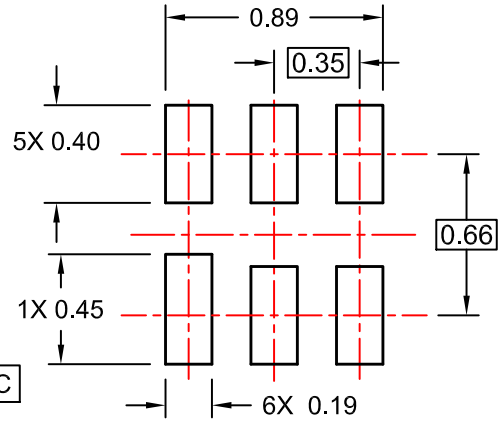
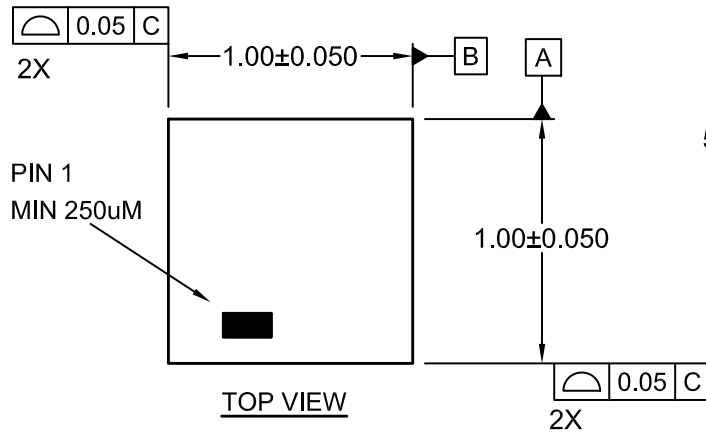
NOTES:

1. CONFORMS TO JEDEC STANDARD MO-252 VARIATION UAAD
2. DIMENSIONS ARE IN MILLIMETERS
3. DRAWING CONFORMS TO ASME Y14.5M-2009
4. PIN ONE IDENTIFIER IS 2X LENGTH OF ANY OTHER LINE IN THE MARK CODE LAYOUT.

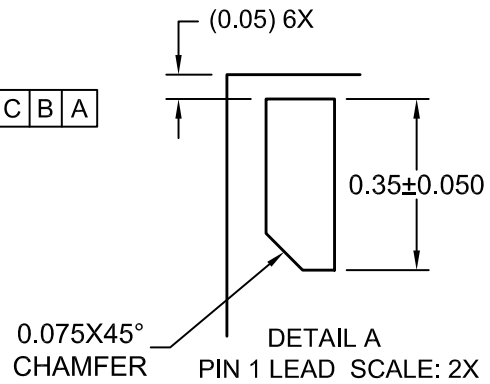
NC7SP126

PACKAGE DIMENSIONS

UDFN6 1.0X1.0, 0.35P
CASE 517DP
ISSUE O



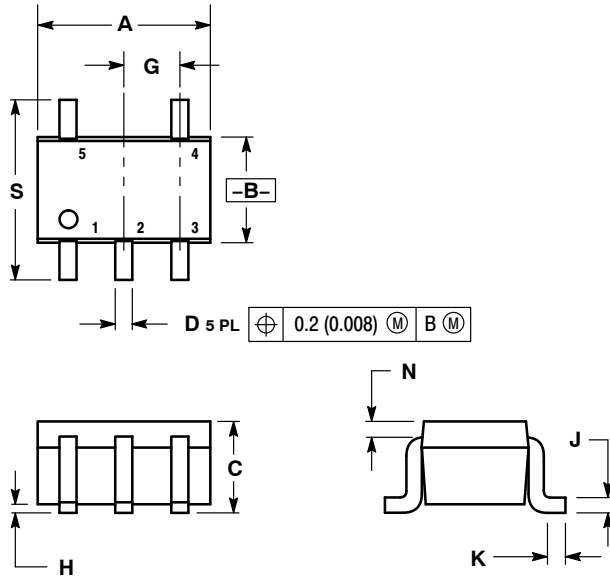
- NOTES:
- A. COMPLIES TO JEDEC MO-252 STANDARD
 - B. DIMENSIONS ARE IN MILLIMETERS.
 - C. DIMENSIONS AND TOLERANCES PER ASME Y14.5M, 2009



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PACKAGE DIMENSIONS

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

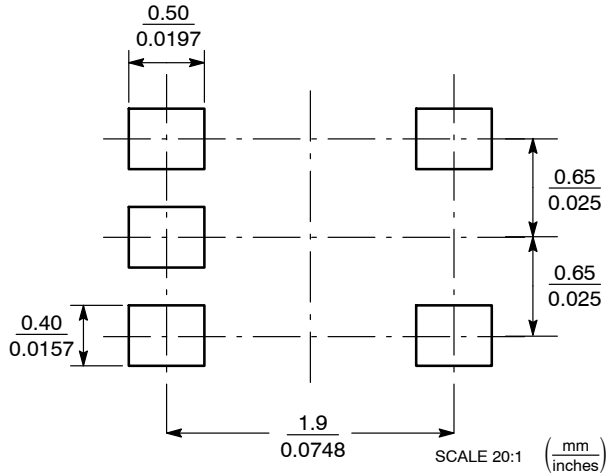


NOTES:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: INCH.
3. 419A-01 OBSOLETE. NEW STANDARD 419A-02.
4. DIMENSIONS A AND B DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR GATE BURRS.

DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.071	0.087	1.80	2.20
B	0.045	0.053	1.15	1.35
C	0.031	0.043	0.80	1.10
D	0.004	0.012	0.10	0.30
G	0.026 BSC		0.65 BSC	
H	---	0.004	---	0.10
J	0.004	0.010	0.10	0.25
K	0.004	0.012	0.10	0.30
N	0.008 REF		0.20 REF	
S	0.079	0.087	2.00	2.20

SOLDER FOOTPRINT



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.

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