MARKING



TinyLogic UHS Two-Input AND Gate NC7SZ08

Description

The NC7SZ08 is a single two-input AND gate from onsemi's Ultra-High Speed (UHS) series of TinyLogic. The device is fabricated with advanced CMOS technology to achieve ultra-high speed with high output drive while maintaining low static power dissipation over a broad V_{CC} operating range. The device is specified to operate over the 1.65 V to 5.5 V V_{CC} operating range. The inputs and output are high impedance when V_{CC} is 0 V. Inputs tolerate voltages up to 5.5 V, independent of V_{CC} operating voltage.

Features

- Ultra-High Speed: $t_{PD} = 2.7 \text{ ns}$ (Typical) into 50 pF at 5 V V_{CC}
- High Output Drive: ±24 mA at 3 V V_{CC}
- Broad V_{CC} Operating Range: 1.65 V to 5.5 V
- Matches Performance of LCX Operated at 3.3 V V_{CC}
- Power Down High Impedance Inputs / Outputs
- Over-Voltage Tolerance Inputs Facilitate 5 V to 3 V Translation
- Proprietary Noise / EMI Reduction Circuitry
- Ultra-Small MicroPakTM Packages
- Space-Saving SOT23-5, SC-74A and SC-88A Packages
- These Devices are Pb-Free, Halogen Free/BFR Free and are RoHS Compliant



Figure 1. Logic Symbol

DIAGRAMS GGKK SIP6 CASE 127EB XYZ **UDFN6 GGKK** CASE 517DP XYZ SC-74A 7Z08 M• **CASE 318BQ** 0 SOT23-5 7Z08 M CASE 527AH SC-88A Z08 M• CASE 419A-02

GG, 7Z08, Z08 = Specific Device Code

= 2-Digit Lot Run Traceability Code ΚK XY = 2-Digit Date Code Format Z = Assembly Plant Code

= Date Code Μ

= Pb-Free Package

(Microdot may be in either location)

ORDERING INFORMATION

See detailed ordering, marking and shipping information in the package dimensions section on page 6 of this data sheet.

1

Pin Configurations

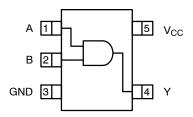


Figure 2. SOT23-5, SC-88A and SC-74A (Top View)

A 1 6 V_{CC} B 2 5 NC GND 3 4 Y

Figure 3. MicroPak (Top Through View)

PIN DEFINITIONS

Pin # SOT23-5 / SC-88A / SC74A	Pin # MicroPak	Name	Description
1	1	Α	Input
2	2	В	Input
3	3	GND	Ground
4	4	Υ	Output
5	6	V _{CC}	Supply Voltage
	5	NC	No Connect

FUNCTION TABLE (Y = AB)

Inputs		Output
Α	В	Υ
L	L	L
L	Н	L
Н	L	L
Н	Н	Н

H = HIGH Logic Level L = LOW Logic Level

ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter		Min	Max	Unit
V _{CC}	Supply Voltage		-0.5	6.5	V
V _{IN}	DC Input Voltage		-0.5	6.5	V
V _{OUT}	DC Output Voltage		-0.5	6.5	V
I _{IK}	DC Input Diode Current	V _{IN} < 0 V	-	-50	mA
l _{OK}	DC Output Diode Current	V _{OUT} < 0 V	-	-50	mA
I _{OUT}	DC Output Current		-	±50	mA
I _{CC} or I _{GND}	DC V _{CC} or Ground Current		-	±50	mA
T _{STG}	Storage Temperature Range		-65	+150	°C
T_J	Junction Temperature Under Bias		-	+150	°C
T_L	Junction Lead Temperature (Solde	ering, 10 Seconds)	-	+260	°C
P_{D}	Power Dissipation in Still Air	SC-74A / SOT23-5	-	390	mW
		SC-88A	-	332	
		MicroPak-6	-	812	
		MicroPak2™-6	-	812	
ESD	Human Body Model, JESD22-A114		-	4000	V
	Charge Device Model, JESD22-C	C101	-	2000	

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.

RECOMMENDED OPERATING CONDITIONS

Symbol	Parameter	Conditions	Min	Max	Unit
V _{CC}	Supply Voltage Operating		1.65	5.50	V
	Supply Voltage Data Retention		1.50	5.50	
V _{IN}	Input Voltage		0	5.5	V
V _{OUT}	Output Voltage		0	V _{CC}	V
T _A	Operating Temperature		-40	+85	°C
t _r , t _f	Input Rise and Fall Times	V _{CC} at 1.8 V, 2.5 V ±0.2 V	0	20	ns/V
		V _{CC} at 3.3 V ±0.3 V	0	10	
		V _{CC} at 5.0 V ±0.5 V	0	5	
$\theta_{\sf JA}$	Thermal Resistance	SC-74A / SOT23-5	-	320	°C/W
		SC-88A	-	377	
		MicroPak-6	-	154	
		MicroPak2-6	-	154	

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.

1. Unused inputs must be held HIGH or LOW. They may not float.

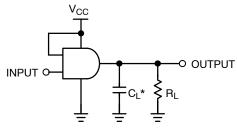
DC ELECTICAL CHARACTERISTICS

					T _A = +25°C			T _A = -40 to +85°C	
Symbol	Parameter	V _{CC} (V)	Conditions	Min	Тур	Max	Min	Max	Unit
V _{IH}	HIGH Level Input Voltage	1.65 to 1.95		0.65 V _{CC}	_	-	0.65 V _{CC}	-	V
		2.30 to 5.50		0.70 V _{CC}	_	-	0.70 V _{CC}	-	
V_{IL}	LOW Level Input Voltage	1.65 to 1.95		-	_	0.35 V _{CC}	-	0.35 V _{CC}	٧
		2.30 to 5.50		-	_	0.30 V _{CC}	-	0.30 V _{CC}	
V _{OH}	HIGH Level Output Voltage	1.65	$V_{IN} = V_{IH}$ or V_{IL} ,	1.55	1.65	-	1.55	-	V
		1.80	I _{OH} = -100 μA	1.70	1.80	-	1.70	-	
		2.30		2.20	2.30	-	2.20	-	
		3.00		2.90	3.00	-	2.90	-	
		4.50		4.40	4.50	-	4.40	-	
		1.65	I _{OH} = -4 mA	1.29	1.52	-	1.29	-	1 - 1
		2.30	I _{OH} = -8 mA	1.90	2.15	-	1.90	-	
		3.00	I _{OH} = -16 mA	2.50	2.80	-	2.40	-	
		3.00	I _{OH} = -24 mA	2.40	2.68	-	2.30	-	
		4.50	I _{OH} = -32 mA	3.90	4.20	-	3.80	-	
V _{OL}	LOW Level Output Voltage	1.65	$V_{IN} = V_{IH}$ or V_{IL} ,	_	0.00	0.10	-	0.10	V
		1.80	I _{OL} = 100 μA	-	0.00	0.10	-	0.10	1
		2.30		-	0.00	0.10	-	0.10	
		3.00		-	0.00	0.10	-	0.10	
		4.50		-	0.00	0.10	-	0.10	1
		1.65	I _{OL} = 4 mA	_	0.80	0.24	-	0.24	1
		2.30	I _{OL} = 8 mA	_	0.10	0.30	-	0.30	1
		3.00	I _{OL} = 16 mA	-	0.15	0.40	-	0.40	
	3.00	I _{OL} = 24 mA	-	0.22	0.55	-	0.55	1	
		4.50	I _{OL} = 32 mA	-	0.22	0.55	-	0.55	1
I _{IN}	Input Leakage Current	1.65 to 5.50	V _{IN} = 5.5 V, GND	-	_	±1	-	±10	μΑ
I _{OFF}	Power Off Leakage Current	0	V _{IN} or V _{OUT} = 5.5 V	_	_	1	-	10	μΑ
I _{CC}	Quiescent Supply Current	1.65 to 5.50	V _{IN} = 5.5 V, GND	-	-	2	-	20	μΑ

AC ELECTRICAL CHARACTERISTICS

				7	Γ _A = +25°C	;	T _A = -40	to +85°C	
Symbol	Parameter	V _{CC} (V)	Conditions	Min	Тур	Max	Min	Max	Unit
t _{PLH} , t _{PHL}	Propagation Delay	1.65	C _L = 15 pF,	-	6.3	12.0	-	12.7	ns
	(Figure 4, 5)	1.80	$R_L = 1 M\Omega$	=	5.2	10.0	-	10.5	
		2.50 ±0.20		=	3.4	7.0	-	7.5	
		3.30 ±0.30		=	2.6	4.7	-	5.0	
		5.00 ±0.50		=	2.2	4.1	-	4.4	
		3.30 ±0.30	C _L = 50 pF,	-	3.3	5.2	-	5.5	
	5.00 ±0.50	$R_L = 500 \Omega$	_	2.7	4.5	-	4.8		
C _{IN}	Input Capacitance	0.00		-	4	-	-	_	pF
C _{PD}	Power Dissipation Capacitance	3.30		_	20	_	-	_	pF
(Note 2) (Figure 6)	5.00		-	25	-	-	-		

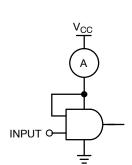
2. C_{PD} is defined as the value of the internal equivalent capacitance which is derived from dynamic operating current consumption (I_{CCD}) at no output loading and operating at 50% duty cycle. C_{PD} is related to I_{CCD} dynamic operating current by the expression: $I_{CCD} = (C_{PD}) (V_{CC}) (f_{IN}) + (I_{CC}static).$



NOTE:

- 3. CL includes load and stray capacitance.
 4. Input PRR = 10 MHz t_w = 500 ns.

Figure 4. AC Test Circuit



NOTE:

5. Input = AC Waveform; $t_r = t_f = 1.8 \text{ ns}$; PRR = 10 MHz; Duty Cycle = 50%.

Figure 6. I_{CCD} Test Circuit

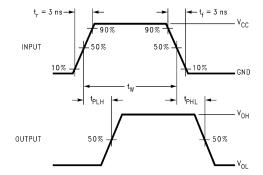


Figure 5. AC Waveforms

ORDERING INFORMATION

Part Number	Top Mark	Packages	Shipping [†]
NC7SZ08M5X	7Z08	SC-74A	3000 / Tape & Reel
NC7SZ08M5X-L22090	7Z08	SOT23-5	3000 / Tape & Reel
NC7SZ08P5X	Z08	SC-88A	3000 / Tape & Reel
NC7SZ08P5X-F22057	Z08	SC-88A	3000 / Tape & Reel
NC7SZ08L6X	GG	SIP6, MicroPak	5000 / Tape & Reel
NC7SZ08FHX	GG	UDFN6, MicroPak2	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.

MicroPak and MicroPak2 are trademarks of Semiconductor Components Industries, LLC (SCILLC) or its subsidiaries in the United States and/or other countries.



DATE 31 AUG 2016



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

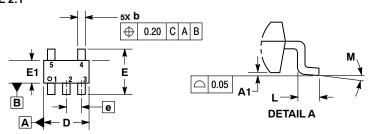
 - OTHER LINE IN THE MARK CODE LAYOUT.

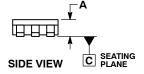
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DESCRIPTION:	SIP6 1.45X1.0		PAGE 1 OF 1	

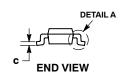
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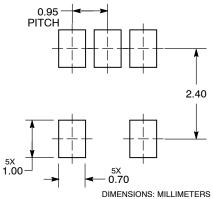
DATE 18 JAN 2018







RECOMMENDED SOLDERING 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.

NOTES:

- DIMENSIONING AND TOLERANCING PER ASME
 Y14.5M, 1994.
 CONTROLLING DIMENSION: MILLIMETERS.
 MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH
 THICKNESS. MINIMUM LEAD THICKNESS IS THE
 MINIMUM THICKNESS OF BASE MATERIAL.
- DIMENSIONS A AND B DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR GATE BURRS. MOLD FLASH, PROTRUSIONS, OR GATE BURRS SHALL NOT EXCEED 0.15 PER SIDE.

	MILLIMETERS			
DIM	MIN	MAX		
Α	0.90	1.10		
A1	0.01	0.10		
b	0.25 0.50			
С	0.10	0.26		
D	2.85	3.15		
E	2.50	3.00		
E1	1.35	1.65		
е	0.95 BSC			
L	0.20	0.60		
М	0 °	10°		

GENERIC MARKING DIAGRAM*



XXX = Specific Device Code

Μ = 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.

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DESCRIPTION:	SC-74A		PAGE 1 OF 1	

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

DATE 17 JAN 2013



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

	INC	HES	MILLIN	IETERS
DIM	MIN	MAX	MIN	MAX
Α	0.071	0.087	1.80	2.20
В	0.045	0.053	1.15	1.35
С	0.031	0.043	0.80	1.10
D	0.004	0.012	0.10	0.30
G	0.026	BSC	0.65 BSC	
Н		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

GENERIC MARKING DIAGRAM*



XXX = Specific Device Code

= 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.



0.50 0.0197 0.65 0.025 0.65 0.025 0.40 0.0157 1.9 mm 0.0748 SCALE 20:1

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

5. COLLECTOR	5. CATHODE	5. CATHODE I	5. GATE 2	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.

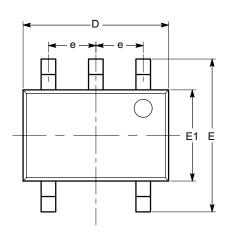
DOCUMENT NUMBER:	98ASB42984B	Electronic versions are uncontrolled except when accessed directly from the Document Ri- Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.	
DESCRIPTION:	SC-88A (SC-70-5/SOT-353)		PAGE 1 OF 1

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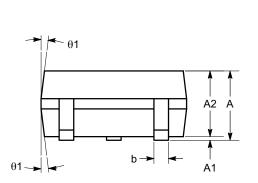


SC-88A (SC-70 5 Lead), 1.25x2 CASE 419AC-01 ISSUE A

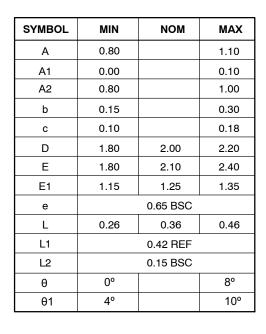
DATE 29 JUN 2010

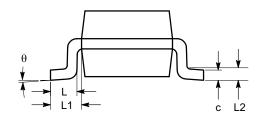


TOP VIEW



SIDE VIEW





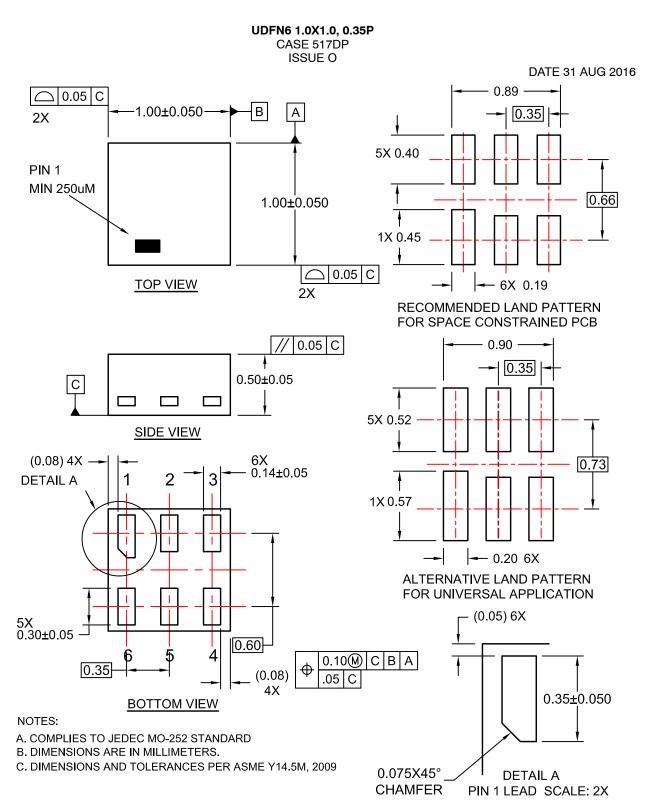
END VIEW

Notes:

- (1) All dimensions are in millimeters. Angles in degrees.
- (2) Complies with JEDEC MO-203.

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DESCRIPTION:	SC-88A (SC-70 5 L FAD).	1.25X2	PAGE 1 OF 1	

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REFERENCE



A

F1 F

В

DATE 09 JUN 2021

NUTES

DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 19894

DIM

- CONTROLLING DIMENSION: MILLIMETERS
- MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH THICKNESS. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF THE
- DIMENSIONS D AND E1 DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR GATE BURRS, MOLD FLASH, PROTRUSIONS, OR GATE BURRS SHALL NOT EXCEED 0.25 PER SIDE. D AND E1 DIMENSIONS ARE DETERMINED AT DATUM D.

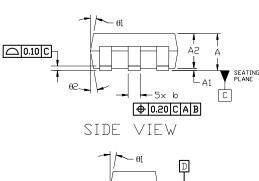
MIN.

DIMENSION 'b' DOES NOT INCLUDE DAMBAR PROTRUSION. DAMBAR PROTRUSION SHALL BE O. 08mm TOTAL IN EXCESS OF THE 'b' DIMENSION AT MAXIMUM MATERIAL CONDITION. MINIMUM SPACE BETWEEN PROTRUSION AND AN ADJACENT LEAD SHALL NOT BE LESS THAN 0.07mm.

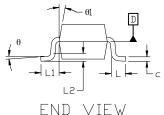
MILLIMETERS

ИПМ.

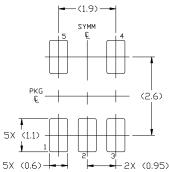
MAX.



TOP VIEW



Α 0.90 1.45 A1 0.00 0.15 Α2 0.90 1.15 1.30 b 0.30 0.50 0.08 0.22 n 2.90 BSC 2.80 BSC E1 1.60 BSC 0.95 BSC е 0.45 0.30 0.60 L1 0.60 REF 0.25 REF L2 4° θ 0° 10° 15° θ1 0° 10° θ2 15°



GENERIC MARKING DIAGRAM*



XXX = Specific Device Code = Date 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.

RECOMMENDED MOUNTING FOOTPRINT

For additional information on our Pb-Free strategy and soldering details, please download the $\square N$ Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

DOCUMENT NUMBER:	98AON34320E	Electronic versions are uncontrolled except when accessed directly from the Document Repositor Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.	
DESCRIPTION:	SOT-23, 5 LEAD		PAGE 1 OF 1

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