Thank you for your interest in **onsemi** products.

Your technical document begins on the following pages.



Your Feedback is Important to Us!

Please take a moment to participate in our short survey.

At **onsemi**, we are dedicated to delivering technical content that best meets your needs.

Help Us Improve - Take the Survey

This survey is intended to collect your feedback, capture any issues you may encounter, and to provide improvements you would like to suggest.

We look forward to your feedback.

To learn more about **onsemi**, please visit our website at **www.onsemi.com**

onsemi and ONSEMI. and other names, marks, and brands are registered and/or common law trademarks of Semiconductor Components Industries, LLC dba "onsemi" or its affiliates and/or subsidiaries in the United States and/or other countries. onsemi owns the rights to a number of patents, trademarks, copyrights, trade secrets, and other intellectual property. A listing of onsemi product/patent coverage may be accessed at www.onsemi.com/site/pdf/Patent-Marking.pdf. onsemi reserves the right to make changes at any time to any products or information herein is provided "as-is" and onsemi makes no warranty, representation or guarantee regarding the accuracy of the information, product features, availability, functionality, or suitability of its products for any particular purpose, nor does onsemi assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. Buyer is responsible for its products and applications using onsemi products, including compliance with all laws, regulations and safety requirements or standards, regardless of any support or applications information provided by onsemi. "Typical" parameters which may be provided in onsemi data sheets and/ or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including "Typicals" must be validated for each customer application by customer's technical experts. onsemi does not convey any license under any of its intellectual property rights nor the rights of others. onsemi products are not designed, intended, or authorized for use as a critical component in life support systems or any FDA Class 3 medical devices or medical devices with a same or similar classification in a foreign jurisdiction or any devices intended for implantation in the human body. Should Buyer purchase or use onsemi products for any such unintended or unauthorized application,



TinyLogic UHS Buffer with Three-State Output NC7SZ126

Description

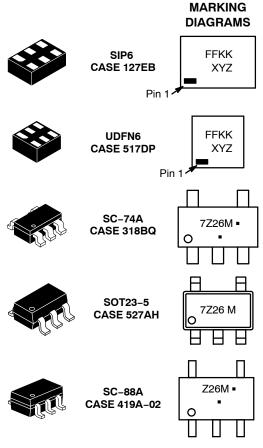
The NC7SZ126 is a single buffer with three–State output from **onsemi**'s Ultra–High Speed (UHS) series of TinyLogic. The device is fabricated with advanced CMOS technology to achieve ultra–high speed with high output drive while maintaining low static power dissipation over a broad V_{CC} operating 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 above ground when V_{CC} is 0 V. Inputs tolerate voltages up to 5.5 V independent of V_{CC} operating voltage. The output tolerates voltages above V_{CC} in the 3–STATE condition.

Features

- Ultra-High Speed: t_{PD} = 2.6 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 when 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



FF, 7Z26, Z26 = Specific Device Code

KK = 2-Digit Lot Run Traceability Code

XY = 2-Digit Date Code Format
Z = Assembly Plant Code

M = Date Code ■ Pb-Free Package

(Note: 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.

NOTE: Some of the devices on this data sheet have been **DISCONTINUED**. Please refer to the table on page 6.

1

Pin Configurations

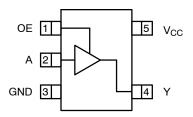


Figure 2. SOT23-5, SC-88A and SC-74A (Top View)

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

Figure 3. MicroPak (Top Through View)

PIN DEFINITIONS

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

FUNCTION TABLE

Inp	Output	
OE	Α	Υ
Н	L	L
Н	Н	Н
L	Х	Z

H = HIGH Logic Level L = LOW Logic Level X = HIGH or LOW Logic Level Z = HIGH Impedance State

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
l _{out}	DC Output Current	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
TJ	Junction Temperature Under Bias	Junction Temperature Under Bias		+150	°C
TL	Junction Lead Temperature (Solder	ring, 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, JEDEC: JESD	Human Body Model, JEDEC: JESD22-A114		2000	V
	Charge Device Model, JEDEC: JES	SD22-C101	-	1000	

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	5.5	٧
	Supply Voltage Data Retention		1.5	5.5	
V _{IN}	Input Voltage		0	5.5	V
V _{OUT}	Output Voltage	Active State	0	V _{CC}	V
		Three-State	0	5.5	
T _A	Operating Temperature		-40	+85	°C
t _r , t _f	Input Rise and Fall Times	V _{CC} = 1.8 V, 2.5 V ±0.2 V	0	20	ns/V
		V _{CC} = 3.3 V ±0.3 V	0	10	
		V _{CC} = 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.

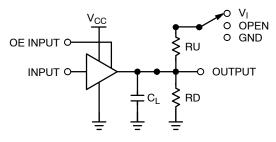
DC ELECTRICAL CHARACTERISTICS

				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}	V
		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
		1.65	I _{OH} = -4 mA	1.29	1.52	-	1.29	-	1
		2.30	I _{OH} = -8 mA	1.90	2.15	-	1.90	-	1
		3.00	I _{OH} = -16 mA	2.40	2.80	-	2.40	-	1
		3.00	I _{OH} = -24 mA	2.30	2.68	-	2.30	-	1
		4.50	I _{OH} = -32 mA	3.80	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	1
		3.00		_	0.00	0.10	-	0.10	1
		4.50		_	0.00	0.10	-	0.10	1
		1.65	I _{OL} = 4 mA	-	0.80	0.24	-	0.24	
		2.30	I _{OL} = 8 mA	-	0.10	0.30	-	0.30	
		3.00	I _{OL} = 16 mA	-	0.15	0.40	-	0.40	
		3.00	I _{OL} = 24 mA	-	0.22	0.55	-	0.55	
		4.50	I _{OL} = 32 mA	-	0.22	0.55	-	0.55	
I _{IN}	Input Leakage Current	1.65 to 5.5	V _{IN} = 5.5 V, GND	-	-	±1	-	±10	μΑ
l _{OZ}	3-STATE Output Leakage	1.65 to 5.5	$V_{IN} = V_{IH}$ or V_{IL} $V_{O} = V_{CC}$ or GND	-	-	±1	-	±10	μΑ
l _{OFF}	Power Off Leakage Current	0	V _{IN} or V _{OUT} = 5.5 V	_	-	1	-	10	μΑ
Icc	Quiescent Supply Current	1.65 to 5.50	V _{IN} = 5.5 V, GND	-	_	2	-	20	μΑ

AC ELECTRICAL CHARACTERISTICS

				-	Γ _A = +25°0	;	T _A = -40	to +85°C	
Symbol	Parameter	V _{CC} (V)	Conditions	Min	Тур	Max	Min	Max	Unit
t _{PLH} , t _{PHL}	Propagation Delay (Figure 4, 6)	1.65	C _L = 15 pF,	-	6.4	13.2	-	13.8	ns
		1.80	$R_D = 1 M\Omega$ $S_1 = OPEN$	-	5.3	11.0	-	11.5	
		2.50 ±0.20	1	-	3.4	7.5	-	8.0	
		3.30 ±0.30]	-	2.5	5.2	-	5.5	
		5.00 ±0.50]	-	2.1	4.5	-	4.8	
		3.30 ±0.30		-	3.2	5.7	-	6.0	
		5.00 ±0.50	$R_D = 500 \Omega$ $S_1 = OPEN$	-	2.6	5.0	-	5.3	
t_{PZL}, t_{PZH}	Output Enable Time	1.65	C _L = 50 pF,	-	8.4	15.0	-	15.6	ns
	(Figure 4, 6)	1.80	$R_D = 500 \Omega$ $RU = 500 \Omega$	1	6.1	11.5	-	12.0	
		2.50 ±0.20	$S_1 = GND \text{ for } t_{PZH}$ $S_1 = V_{IN} \text{ for } t_{PZL}$	1	3.8	8.0	-	8.5	
		3.30 ±0.30	$V_{IN} = 2 \cdot V_{CC}$	-	3.2	5.7	-	6.0	
		5.00 ±0.50]	_	2.3	5.0	-	5.3	
t _{PLZ} , t _{PHZ}	Output Disable Time	1.65	C _L = 50 pF,	_	6.5	13.2	-	14.5	
	(Figure 4, 6)	1.80	R_D = 500 Ω RU = 500 Ω	-	5.6	11.0	-	12	
		2.50 ±0.20	$S_1 = GND$ for t_{PHZ} $S_1 = V_{IN}$ for t_{PLZ}	-	4.0	8.0	-	8.5	
		3.30 ±0.30	$V_{IN} = 2 \cdot V_{CC}$	ı	3.5	5.7	_	6.0	
		5.00 ±0.50		ı	2.5	4.7	-	5.0	
C _{IN}	Input Capacitance	0.00		ı	4	_	-	_	pF
C _{OUT}	Output Capacitance	0.00		ı	8	_	-	_	pF
C _{PD}	Power Dissipation Capacitance (Note 2) (Figure 5)	3.30		ı	17	_	-	_	pF
	(Note 2) (Figure 3)	5.00		1	24	-	-	-	

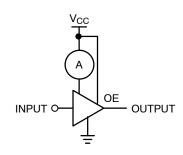
^{2.} C_{PD} is defined as the value of the internal equivalent capacitance which is derived from dynamic operating current consumption (I_{CCD}) at no output loading and operating at 50% duty cycle. C_{PD} is related to I_{CCD} dynamic operating current by the expression: I_{CCD} = (C_{PD}) (V_{CC})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



NOTE:

3. C_L includes load and stray capacitance; Input PRR = 1.0 MHz; t_W = 500 ns

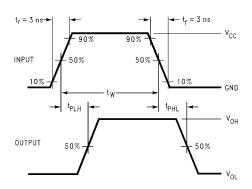
Figure 4. AC Test Circuit



NOTE:

4. Input = AC Waveform; $t_r = t_f = 1.8$ ns; PRR = 10 MHz; Duty Cycle = 50%.

Figure 5. I_{CCD} Test Circuit



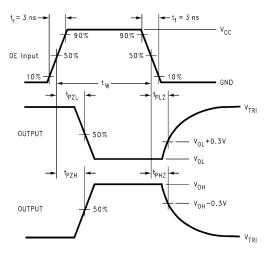


Figure 6. AC Waveforms

ORDERING INFORMATION

Part Number	Top Mark	Packages	Shipping [†]
NC7SZ126M5X	7Z26	SC-74A	3000 / Tape & Reel
NC7SZ126P5X	Z26	SC-88A	3000 / Tape & Reel
NC7SZ126L6X	FF	SIP6, MicroPak	5000 / Tape & Reel
NC7SZ126FHX	FF	UDFN6, MicroPak2	5000 / Tape & Reel

DISCONTINUED (Note 5)

NC7SZ126M5X-L22090	7Z26	SOT23-5	3000 / Tape & Reel
NC7SZ126P5X-F22057	Z26	SC-88A	3000 / Tape & Reel
NC7SZ126L6X-L22175	FF	SIP6, MicroPak	5000 / Tape & Reel
NC7SZ126FHX-L22175	FF	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 dba "onsemi" or its affiliates and/or subsidiaries in the United States and/or other countries.

^{5.} **DISCONTINUED:** These devices are not recommended for new design. Please contact your **onsemi** representative for information. The most current information on these devices may be available on www.onsemi.com.



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.

DOCUMENT NUMBER:	98AON13590G	Electronic versions are uncontrolled except when accessed directly from the Document Reposit Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.			
DESCRIPTION:	SIP6 1.45X1.0		PAGE 1 OF 1		

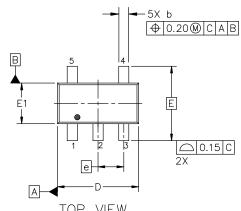
ON Semiconductor and un are trademarks of Semiconductor Components Industries, LLC dba ON Semiconductor or its subsidiaries in the United States and/or other countries. ON Semiconductor reserves the right to make changes without further notice to any products herein. ON Semiconductor makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does ON Semiconductor assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. ON Semiconductor does not convey any license under its patent rights nor the rights of others.

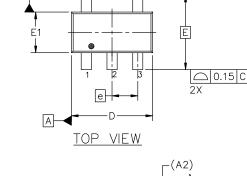


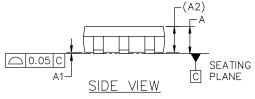


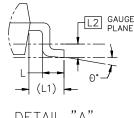
SC-74A-5 3.00x1.50x0.95, 0.95P CASE 318BQ ISSUE C

DATE 26 FEB 2024









DETAIL SCALE 2:1

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.

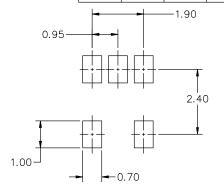
NOTES:

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

DETAIL	A —
r c	
END	VIEW

DIM	М	ILLIMETER	RS	
DIIVI	MIN.	NOM.	MAX.	
Α	0.90	1.00	1.10	
A1	0.01	0.18	0.10	
A2	(0.95 REF		
b	0.25	0.37	0.50	
С	0.10	0.18	0.26	
D	2.85	3.00	3.15	
Е	:	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



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.

DOCUMENT NUMBER:	98AON66279G	Electronic versions are uncontrolled except when accessed directly from the Document Re Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.	
DESCRIPTION:	SC-74A-5 3.00x1.50x0.95.	0.95P	PAGE 1 OF 1

onsemi and ONSEMI are trademarks of Semiconductor Components Industries, LLC dba onsemi or its subsidiaries in the United States and/or other countries. onsemi reserves the right to make changes without further notice to any products herein. onsemi makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does onsemi assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. onsemi does not convey any license under its patent rights nor the rights of others.





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

DATE 11 APR 2023

NOTES:

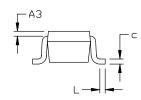
- 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
- 2. CONTROLLING DIMENSION: MILLIMETERS
- 3. 419A-01 DBSDLETE, NEW STANDARD 419A-02
- 4. DIMENSIONS D AND E1 DO NOT INCLUDE MOLD FLASH,
 PROTRUSIONS, OR GATE BURRS.MOLD FLASH, PROTRUSIONS,
 OR GATE BURRS SHALL NOT EXCEED 0.1016MM PER SIDE.

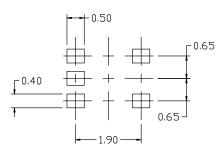
DIM	MILLIMETERS			
DIM	MIN.	N□M.	MAX.	
А	0.80	0.95	1.10	
A1			0.10	
A3	0.20 REF			
b	0.10	0.20	0.30	
C	0.10		0.25	
D	1.80	2.00	2,20	
Е	2.00	2.10	2.20	
E1	1.15	1.25	1.35	
е	0.65 BSC			
L	0.10	0.15	0.30	

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:

98ASB42984B

Electronic versions are uncontrolled except when accessed directly from the Document Repository. Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.

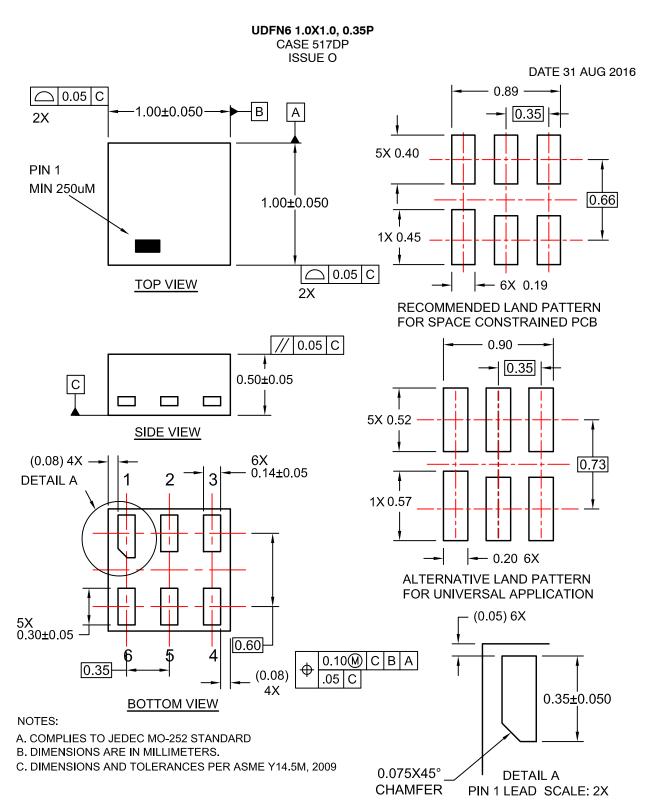
DESCRIPTION:

5. COLLECTOR 2/BASE 1

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

PAGE 1 OF 1

onsemi and ONSEMI are trademarks of Semiconductor Components Industries, LLC dba onsemi or its subsidiaries in the United States and/or other countries. onsemi reserves the right to make changes without further notice to any products herein. onsemi makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does onsemi assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. onsemi does not convey any license under its patent rights nor the rights of others.



DOCUMENT NUMBER:	98AON13593G	Electronic versions are uncontrolled except when accessed directly from the Document Repository. Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.	
DESCRIPTION:	UDFN6 1.0X1.0, 0.35P		PAGE 1 OF 1

ON Semiconductor and are trademarks of Semiconductor Components Industries, LLC dba ON Semiconductor or its subsidiaries in the United States and/or other countries. ON Semiconductor reserves the right to make changes without further notice to any products herein. ON Semiconductor makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does ON Semiconductor assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. ON Semiconductor does not convey any license under its patent rights nor the rights of others.



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.

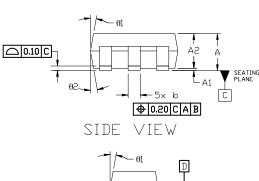
MIN.

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.

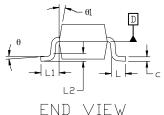
MILLIMETERS

ИПМ.

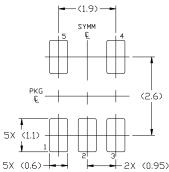
MAX.



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 Repository Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.	
DESCRIPTION:	SOT-23, 5 LEAD		PAGE 1 OF 1

ON Semiconductor and unare trademarks of Semiconductor Components Industries, LLC dba ON Semiconductor or its subsidiaries in the United States and/or other countries. ON Semiconductor reserves the right to make changes without further notice to any products herein. ON Semiconductor makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does ON Semiconductor assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. ON Semiconductor does not convey any license under its patent rights nor the

onsemi, ONSEMI., and other names, marks, and brands are registered and/or common law trademarks of Semiconductor Components Industries, LLC dba "onsemi" or its affiliates and/or subsidiaries in the United States and/or other countries. onsemi owns the rights to a number of patents, trademarks, copyrights, trade secrets, and other intellectual property. A listing of onsemi's product/patent coverage may be accessed at www.onsemi.com/site/pdf/Patent-Marking.pdf. onsemi reserves the right to make changes at any time to any products or information herein, without notice. The information herein is provided "as-is" and onsemi makes no warranty, representation or guarantee regarding the accuracy of the information, product features, availability, functionality, or suitability of its products for any particular purpose, nor does onsemi assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. Buyer is responsible for its products and applications using **onsemi** products, including compliance with all laws, regulations and safety requirements or standards, regardless of any support or applications information provided by **onsemi**. "Typical" parameters which may be provided in **onsemi** data sheets and/or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including "Typicals" must be validated for each customer application by customer's technical experts. **onsemi** does not convey any license under any of its intellectual property rights nor the rights of others. **onsemi** products are not designed, intended, or authorized for use as a critical component in life support systems. or any FDA Class 3 medical devices or medical devices with a same or similar classification in a foreign jurisdiction or any devices intended for implantation in the human body. Should Buyer purchase or use **onsemi** products for any such unintended or unauthorized application, Buyer shall indemnify and hold **onsemi** and its officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, costs, damages, and expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized use, even if such claim alleges that **onsemi** was negligent regarding the design or manufacture of the part. **onsemi** is an Equal Opportunity/Affirmative Action Employer. This literature is subject to all applicable copyright laws and is not for resale in any manner.

ADDITIONAL INFORMATION

TECHNICAL PUBLICATIONS:

 $\textbf{Technical Library:} \ \underline{www.onsemi.com/design/resources/technical-documentation}$

onsemi Website: www.onsemi.com

ONLINE SUPPORT: www.onsemi.com/support

For additional information, please contact your local Sales Representative at

www.onsemi.com/support/sales