MARKING

DIAGRAMS

7Z25 M

Z25 M•



TinyLogic UHS Buffer with Three-State Output

NC7SZ125

Description

The NC7SZ125 is a single buffer with three–state output from onsemi's Ultra–High Speed (UHS) 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 very broad $V_{\rm CC}$ operating range. The device is specified to operate over the 1.65 V to 5.5 V range. The inputs and output are high impedance above ground when $V_{\rm CC}$ is 0 V. Inputs tolerate voltages up to 5.5 V independent of $V_{\rm CC}$ operating voltage. The output tolerates voltages above $V_{\rm CC}$ when 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 MicroPak™ 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

SOT23-5

CASE 527AH

SC-88A

CASE 419A-02

DD, 7Z25, Z25 = Specific Device Code

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

= Date Code= 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.

Pin Configurations

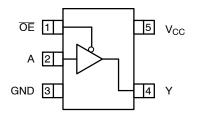


Figure 2. SOT23-5, SC-88A and SC-74A (Top View)

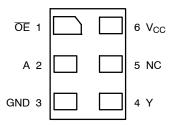


Figure 3. MicroPak (Top Through View)

PIN DEFINITIONS

Pin # SOT23-5 / SC-88A / SC74A	Pin # MicroPak	Name	Description
1	1	ŌĒ	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	
ŌĒ	Α	Υ
L	L	L
L	Н	Н
Н	X	Z

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

ABSOLUTE MAXIMUM RATINGS

Symbol	Paramet	Parameter		Max	Unit
V _{CC}	Supply Voltage	Supply Voltage		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
I _{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
TJ	Junction Temperature Under Bias		-	+150	°C
TL	Junction Lead Temperature (Solder	ing, 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: JESD22-A114		-	4000	V
	Charge Device Model, JEDEC: JES	SD22-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	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} 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 ELECTRICAL CHARACTERISTICS

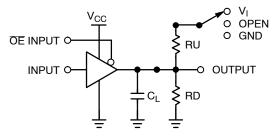
				T,	λ = +25°	°C	T _A = -40	to +85°C	
Symbol	Parameter	V _{CC} (V)	Conditions	Min	Тур	Max	Min	Max	Unit
V_{IH}	HIGH Level Input Voltage	1.65 to 1.95		0.65 V _{CC}	-	-	0.65 V _{CC}	-	V
		2.30 to 5.50		0.70 V _{CC}	-	-	0.70 V _{CC}	-	
V_{IL}	LOW Level Input Voltage	1.65 to 1.95		-	-	0.35 V _{CC}	-	0.35 V _{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	-	٧
		1.80	Ι _{ΟΗ} = -100 μΑ	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	-	
		2.30	I _{OH} = -8 mA	1.90	2.15	-	1.90	-	
		3.00	I _{OH} = -16 mA	2.40	2.80	-	2.40	-	
		3.00	I _{OH} = -24 mA	2.30	2.68	-	2.30	-	
		4.50	I _{OH} = -32 mA	3.80	4.20	-	3.80	-	
V_{OL}	LOW Level Output Voltage	1.65	$V_{IN} = V_{IH} \text{ or } V_{IL},$	-	0.00	0.10	-	0.00	V
		1.80	I _{OL} = 100 μA	-	0.00	0.10	-	0.10	
		2.30		_	0.00	0.10	_	0.10	
		3.00	1	-	0.00	0.10	-	0.10	1
		4.50		-	0.00	0.10	-	0.10	
		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	$0 \geq V_{IN} \geq 5.5 \ V$	-	-	±1	-	±10	μΑ
I _{OZ}	3-STATE Output Leakage	0 to 5.5	$\begin{aligned} &V_{IN} = V_{IH} \text{ or } V_{IL} \\ &0 \geq V_O \geq 5.5 \text{ V} \end{aligned}$	-	-	±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

				-	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 (Figure 4, 6)	1.65		-	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]	-	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	C _L = 50 pF,	-	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 Ω	-	7.0	12.5	-	13.0	
		2.50 ±0.20	$S_1 = GND$ for t_{PZH} $S_1 = V_{IN}$ for t_{PZL}	-	4.6	8.5	-	9.0	
		3.30 ±0.30	$V_{IN} = 2 \cdot V_{CC}$	-	3.5	6.2	-	6.5	
		5.00 ±0.50		-	2.8	5.5	-	5.8	
t_{PLZ}, t_{PHZ}	Output Disable Time (Figure 4, 6)	1.65	C _L = 50 pF,	-	6.5	13.2	-	14.5	
	(Figure 4, 6)	1.80	R_D = 500 Ω RU = 500 Ω	-	5.4	11.0	-	12.0	
		2.50 ±0.20	$S_1 = GND$ for t_{PHZ} $S_1 = V_{IN}$ for t_{PLZ}	ı	3.5	8.0	-	8.5	
		3.30 ±0.30	$V_{IN} = 2 \cdot V_{CC}$	-	2.8	5.7	-	6.0	
		5.00 ±0.50		ı	2.1	4.7	-	5.0	
C _{IN}	Input Capacitance	0.00		ı	4	_	-	-	pF
C _{OUT}	Output Capacitance	0.00		ı	8	_	-	-	
C _{PD}	Power Dissipation Capacitance (Note 2) (Figure 5)	3.30		-	17	-	-	-	pF

^{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:

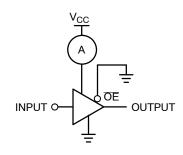
I_{CCD} = (C_{PD}) (V_{CC}) (f_{IN}) + (I_{CC}static).



NOTE:

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

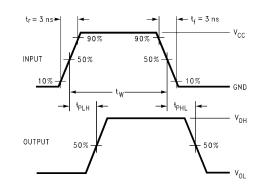
Figure 4. AC Test Circuit



NOTE:

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

Figure 5. I_{CCD} Test Circuit



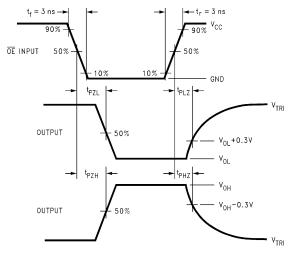


Figure 6. AC Waveforms

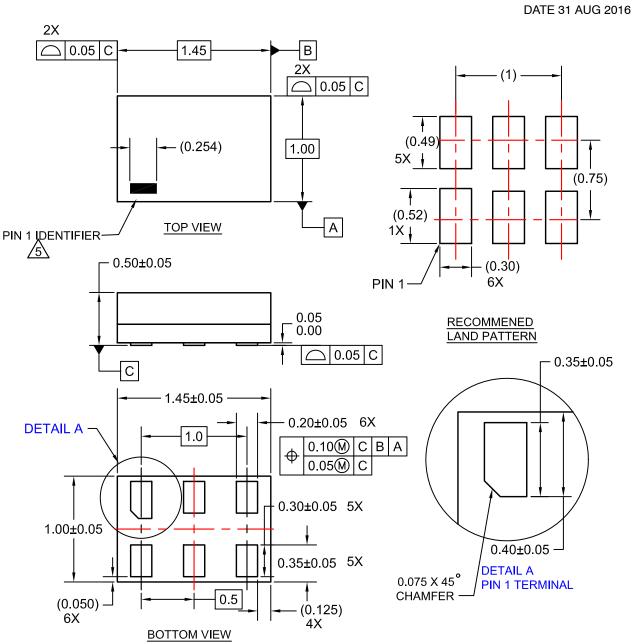
ORDERING INFORMATION

Part Number	Top Mark	Operating Temperature	Packages	Shipping [†]
NC7SZ125M5X	7Z25	−40 to +85°C	SC-74A	3000 / Tape & Reel
NC7SZ125M5X-L22090	7Z25	−40 to +85°C	SOT23-5	3000 / Tape & Reel
NC7SZ125P5X	Z25	−40 to +85°C	SC-88A	3000 / Tape & Reel
NC7SZ125P5X-F22057	Z25	−40 to +85°C	SC-88A	3000 / Tape & Reel
NC7SZ125L6X	DD	−40 to +85°C	MicroPak	5000 / Tape & Reel
NC7SZ125L6X-L22175	DD	−40 to +85°C	MicroPak	5000 / Tape & Reel
NC7SZ125FHX	DD	−40 to +85°C	MicroPak2	5000 / Tape & Reel
NC7SZ125FHX-L22175	DD	−40 to +85°C	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.

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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.

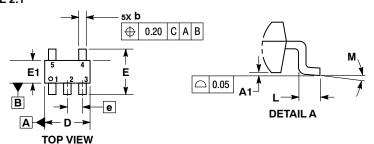
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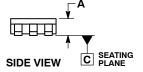
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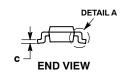




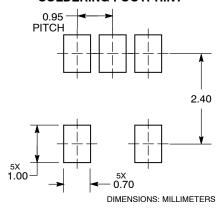
DATE 18 JAN 2018







RECOMMENDED SOLDERING FOOTPRINT*



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

NOTES:

- IES:
 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 M

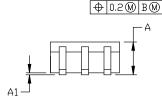
DATE 11 APR 2023

NOTES:

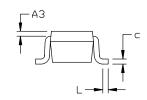
- 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
- 2. CONTROLLING DIMENSION: MILLIMETERS
- 419A-01 DBSDLETE. NEW STANDARD 419A-02
- DIMENSIONS D AND E1 DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR GATE BURRS.MOLD FLASH, PROTRUSIONS, OR GATE BURRS SHALL NOT EXCEED 0.1016MM PER SIDE.

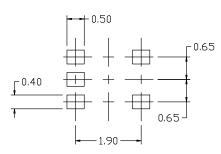
DIM	MILLIMETERS			
الملتط	MIN.	N□M.	MAX.	
А	0.80	0.95	1.10	
A1			0.10	
A3	0.20 REF			
b	0.10	0.20	0.30	
С	0.10		0.25	
D	1.80	2.00	2,20	
Е	2.00	2.10	2.20	
E1	1.15	1.25	1.35	
е	0.65 BSC			
L	0.10	0.15	0.30	

е Ε1 0



5X b





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, SOLDERRM/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.

out in the datasheet refer to the device

XXX = Specific Device Code

= Date Code

= Pb-Free Package

(Note: Microdot may be in either location)

STYLE 1	-
	EMITTER
	BASE
	COLLECTOR
5.	COLLECTOR

PIN 1. EMITTER 2

2. BASE 2

3. EMITTER 1

4. COLLECTOR

5. COLLECTOR 2/BASE 1

STYLE 6:

STYLE 2: PIN 1. ANODE 2. EMITTER 3. BASE 4. COLLECTOR CATHODE

2. EMITTER 3. BASE

4. COLLECTOR

5. COLLECTOR

STYLE 7:

PIN 1. BASE

STYLE 3: PIN 1. ANODE 1 2. N/C 3. ANODE 2 4. CATHODE 2 5. CATHODE 1

PIN 1. CATHODE 2. COLLECTOR 3. N/C

4. BASE

STYLE 8:

STYLE 4: PIN 1. SOURCE 1 2. DRAIN 1/2 3 SOURCE 1 4. GATE 1 5. GATE 2

3. ANODE 4. ANODE

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

STYLE 9: Note: Please refer to datasheet for PIN 1. ANODE 2. CATHODE style callout. If style type is not called

 ANODE
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DOCUMENT NUMBER: 98ASB42984B **DESCRIPTION:** SC-88A (SC-70-5/SOT-353) PAGE 1 OF 1

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UDFN6 1.0X1.0, 0.35P CASE 517DP ISSUE O **DATE 31 AUG 2016** 0.89 0.05 C В 1.00±0.050 Α 2X 5X 0.40 PIN 1 MIN 250uM 0.66 1 00±0 050 1X 0.45 0.05 C **TOP VIEW** 6X 0.19 2X RECOMMENDED LAND PATTERN FOR SPACE CONSTRAINED PCB 0.05 C - 0.90 -0.50±0.05 5X 0.52 SIDE VIEW 6X 0.14±0.05 (0.08)4X -0.73 **DETAIL A** 3 1X 0.57 - 0.20 6X ALTERNATIVE LAND PATTERN FOR UNIVERSAL APPLICATION (0.05)6X5X 0.30±0.05 0.60 0.10M|C|B|A(80.0).05 C 4X 0.35±0.050 **BOTTOM VIEW** 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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0.075X45°

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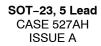
DETAIL A

PIN 1 LEAD SCALE: 2X





REFERENCE



DATE 09 JUN 2021

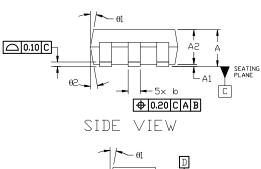
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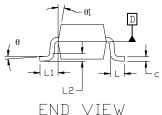
F1 F

В

- 1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 19894
- CONTROLLING DIMENSION: MILLIMETERS
- MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH THICKNESS.
 MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF THE BASE MATERIAL.
- 4. DIMENSIONS D AND E1 DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR GATE BURRS, MOLD FLASH, PROTRUSIONS, OR GATE BURRS SHALL NOT EXCEED O. 25 PER SIDE. D AND E1 DIMENSIONS ARE DETERMINED AT DATUM D.
- 5. DIMENSION '6' DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.08mm TOTAL IN EXCESS OF THE '6' DIMENSION AT MAXIMUM MATERIAL CONDITION. MINIMUM SPACE BETWEEN PROTRUSION AND AN ADJACENT LEAD SHALL NOT BE LESS THAN 0.07mm.



TOP VIEW



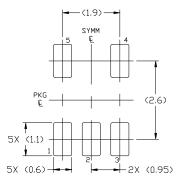
GENERIC MARKING DIAGRAM*



XXX = Specific Device Code M = 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.

	MILLIMETERS			
DIM	MIN.	N□M.	MAX.	
Α	0.90	_	1.45	
A1	0.00	_	0.15	
A2	0.90	1.15	1.30	
b	0.30	_	0.50	
С	0.08	_	0.22	
D	2.90 BSC			
Ε	2.80 B2C			
E1	1.60 BSC			
е	0.95 BSC			
L	0.30	0.45	0.60	
L1	0.60 REF			
L2	0.25 REF			
θ	0°	4°	8*	
θ1	0°	10°	15°	
θ2	0°	10°	15°	



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.

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