

Bus Buffer with 3-State Output NL17SG125

The NL17SG125 MiniGate™ is an advanced high-speed CMOS Bus Buffer with 3-State Output in ultra-small footprint.

The NL17SG125 input structures provides protection when voltages up to 3.6 V are applied.

Features

- Wide Operating V_{CC} Range: 0.9 V to 3.6 V
- High Speed: $t_{PD} = 2.4$ ns (Typ) at $V_{CC} = 3.0$ V, $C_L = 15$ pF
- Low Power Dissipation: $I_{CC} = 0.5$ μ A (Max) at $T_A = 25^\circ$ C
- 3.6 V Overvoltage Tolerant (OVT) Input Pins
- I_{OFF} Supports Partial Power Down Protection
- Ultra-Small 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 and are RoHS Compliant

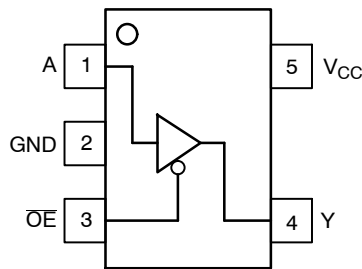


Figure 1. SOT-953
(Top Thru View)

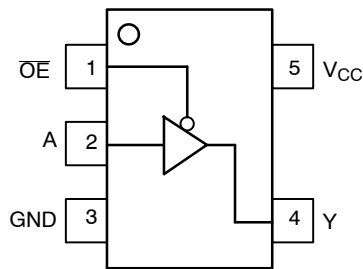


Figure 2. SC-88A
(Top View)

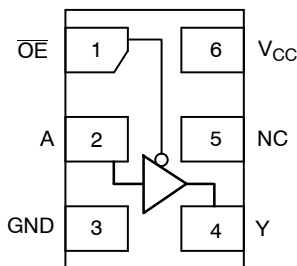


Figure 3. UDFN6
(Top View)

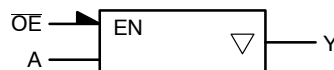


Figure 4. Logic Symbol

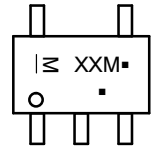
PIN ASSIGNMENT

Pin Number	SOT-953	SC-88A	UDFN6
1	A	OE	OE
2	GND	A	A
3	OE	GND	GND
4	Y	Y	Y
5	V_{CC}	V_{CC}	NC
6			V_{CC}

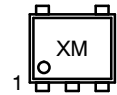
MARKING DIAGRAMS



SC-88A
DF SUFFIX
CASE 419A



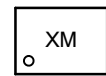
SOT-953
CASE 527AE



UDFN6
1.0 x 1.0
CASE 517BX



UDFN6
1.45 x 1.0
CASE 517AQ



XX = Specific Device Code
M = Date Code*
▪ = Pb-Free Package

(Note: Microdot may be in either location)

*Date Code orientation and/or position may vary depending upon manufacturing location.

FUNCTION TABLE

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

ORDERING INFORMATION

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

Table 1. MAXIMUM RATINGS

Symbol	Parameter	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 $V_{IN} < GND$	–20	mA
I_{OK}	DC Output Diode Current $V_{OUT} < GND$	–20	mA
I_{OUT}	DC Output Source/Sink Current	±20	mA
I_{CC} or I_{GND}	DC Supply Current Per Supply Pin or Ground Pin	±20	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–953 UDFN6	377 254 154	°C/W
P_D	Power Dissipation in Still Air at 85°C SC–88A SOT–953 UDFN6	332 491 812	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.

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.

Table 2. RECOMMENDED OPERATING CONDITIONS

Symbol	Parameter	Min	Max	Unit
V_{CC}	Positive DC Supply Voltage	0.9	3.6	V
V_{IN}	Digital Input Voltage	0	3.6	V
V_{OUT}	Output Voltage Active Mode (High or Low State) Tri-State Mode (Note 1) Power Down Mode ($V_{CC} = 0$ V)	0 0 0	V_{CC} 3.6 3.6	V
T_A	Operating Free-Air Temperature	–55	+125	°C
t_r, t_f	Input Transition Rise or Fall Rate $V_{CC} = 3.3$ V ± 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.

Table 3. DC ELECTRICAL CHARACTERISTICS

Symbol	Parameter	Conditions	V _{CC} (V)	T _A = 25°C			T _A = -55°C to +125°C		Unit
				Min	Typ	Max	Min	Max	
V _{IH}	High-Level Input Voltage		0.9	–	V _{CC}	–	–	–	V
			1.1 to 1.3	0.7 × V _{CC}	–	–	0.7 × V _{CC}	–	
			1.4 to 1.6	0.65 × V _{CC}	–	–	0.65 × V _{CC}	–	
			1.65 to 1.95	0.65 × V _{CC}	–	–	0.65 × V _{CC}	–	
			2.3 to 2.7	1.7	–	–	1.7	–	
			3.0 to 3.6	2.0	–	–	2.0	–	
V _{IL}	Low-Level Input Voltage		0.9	–	GND	–	–	–	V
			1.1 to 1.3	–	–	0.3 × V _{CC}	–	0.3 × V _{CC}	
			1.4 to 1.6	–	–	0.35 × V _{CC}	–	0.35 × V _{CC}	
			1.65 to 1.95	–	–	0.35 × V _{CC}	–	0.35 × V _{CC}	
			2.3 to 2.7	–	–	0.7	–	0.7	
			3.0 to 3.6	–	–	0.8	–	0.8	
V _{OH}	High-Level Output Voltage	V _{IN} = V _{IH} or V _{IL}							V
		I _{OH} = -20 μA	0.9	–	0.75	–	–	–	
		I _{OH} = -0.3 mA	1.1 to 1.3	0.75 × V _{CC}	–	–	0.75 × V _{CC}	–	
		I _{OH} = -1.7 mA	1.4 to 1.6	0.75 × V _{CC}	–	–	0.75 × V _{CC}	–	
		I _{OH} = -3.0 mA	1.65 to 1.95	V _{CC} - 0.45	–	–	V _{CC} - 0.45	–	
		I _{OH} = -4.0 mA	2.3 to 2.7	2.0	–	–	2.0	–	
		I _{OH} = -8.0 mA	3.0 to 3.6	2.48	–	–	2.48	–	
V _{OL}	Low-Level Output Voltage	V _{IN} = V _{IH} or V _{IL}							V
		I _{OL} = 20 μA	0.9	–	0.1	–	–	–	
		I _{OL} = 0.3 mA	1.1 to 1.3	–	–	0.25 × V _{CC}	–	0.25 × V _{CC}	
		I _{OL} = 1.7 mA	1.4 to 1.6	–	–	0.25 × V _{CC}	–	0.25 × V _{CC}	
		I _{OL} = 3.0 mA	1.65 to 1.95	–	–	0.45	–	0.45	
		I _{OL} = 4.0 mA	2.3 to 2.7	–	–	0.4	–	0.4	
		I _{OL} = 8.0 mA	2.7 to 3.6	–	–	0.4	–	0.4	
I _{IN}	Input Leakage Current	V _{IN} = 0 V to 3.6 V	0.9 to 3.6	–	–	±0.1	–	±1.0	μA
I _{OFF}	Power Off Leakage Current	V _{IN} = 0 V to 3.6 V; V _{OUT} = 0 V to 3.6 V	0	–	–	1.0	–	10.0	μA
I _{CC}	Quiescent Supply Current	V _{IN} = V _{CC} or GND	0.9 to 3.6	–	–	1.0	–	10.0	μA
I _{OZ}	3-State Output Leakage Current	V _{IN} = V _{IH} or V _{IL} V _{OUT} = 0 to 3.6V	0.9 to 3.6	–	–	1.0	–	10.0	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.

NL17SG125

Table 4. AC ELECTRICAL CHARACTERISTICS

Symbol	Parameter	Test 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	C _L = 10 pF, R _L = 1 MΩ	0.9	-	44.4	-	-	-	ns
			1.1 to 1.3	-	10.8	29.2	-	33.9	
			1.4 to 1.6	-	5.0	8.5	-	10.0	
			1.65 to 1.95	-	4.0	6.2	-	6.7	
			2.3 to 2.7	-	2.6	3.9	-	4.4	
			3.0 to 3.6	-	2.1	3.1	-	3.7	
		C _L = 15 pF, R _L = 1 MΩ	0.9	-	44.9	-	-	-	ns
			1.1 to 1.3	-	11.0	29.9	-	34.7	
			1.4 to 1.6	-	5.6	9.3	-	11.2	
			1.65 to 1.95	-	4.5	6.9	-	7.1	
			2.3 to 2.7	-	2.9	4.4	-	5.0	
			3.0 to 3.6	-	2.4	3.4	-	3.9	
		C _L = 30 pF, R _L = 1 MΩ	0.9	-	46.2	-	-	-	ns
			1.1 to 1.3	-	11.6	32.0	-	37.1	
			1.4 to 1.6	-	8.2	13.1	-	15.9	
			1.65 to 1.95	-	6	9.2	-	9.6	
			2.3 to 2.7	-	4	5.7	-	6.1	
			3.0 to 3.6	-	3.3	4.4	-	4.8	
t _{PZH} , t _{PZL}	Output Enable Time, OE to Y	C _L = 10 pF; R _L = 100 kΩ R _L = 5 kΩ R _L = 5 kΩ R _L = 5 kΩ R _L = 5 kΩ							ns
			0.9	-	43.3	-	-	-	
			1.1 to 1.3	-	10.5	29.0	-	33.7	
			1.4 to 1.6	-	5.3	7.8	-	8.3	
			1.65 to 1.95	-	3.9	5.5	-	5.9	
			2.3 to 2.7	-	2.5	3.5	-	3.8	
			3.0 to 3.6	-	2.1	2.7	-	3	
		C _L = 15 pF; R _L = 100 kΩ R _L = 5 kΩ R _L = 5 kΩ R _L = 5 kΩ R _L = 5 kΩ							ns
			0.9	-	43.8	-	-	-	
			1.1 to 1.3	-	10.7	29.7	-	34.5	
			1.4 to 1.6	-	5.9	8.9	-	11	
			1.65 to 1.95	-	4.4	6.3	-	6.5	
			2.3 to 2.7	-	2.9	3.9	-	4.2	
			3.0 to 3.6	-	2.3	3	-	3.3	
		C _L = 30 pF; R _L = 100 kΩ R _L = 5 kΩ R _L = 5 kΩ R _L = 5 kΩ R _L = 5 kΩ							ns
			0.9	-	45.1	-	-	-	
			1.1 to 1.3	-	11.2	31.8	-	36.9	
			1.4 to 1.6	-	8.3	12.2	-	13.7	
			1.65 to 1.95	-	6.1	8.6	-	9.7	
			2.3 to 2.7	-	3.8	5	-	5.5	
			3.0 to 3.6	-	2.9	3.8	-	4.2	

Table 4. AC ELECTRICAL CHARACTERISTICS

Symbol	Parameter	Test Condition	V _{CC} (V)	T _A = 25 °C			T _A = -55°C to +125°C		Unit
				Min	Typ	Max	Min	Max	
t _{PHZ} , t _{PLZ}	Output Disable Time, OE to Y	C _L = 10 pF; R _L = 100 kΩ R _L = 5 kΩ R _L = 5 kΩ R _L = 5 kΩ R _L = 5 kΩ							ns
			0.9	-	89.6	-	-	-	
			1.1 to 1.3	-	9.1	16.5	-	22.4	
			1.4 to 1.6	-	7.1	9.1	-	10.4	
			1.65 to 1.95	-	6.5	8.3	-	9	
			2.3 to 2.7	-	5.8	7.3	-	8.8	
			3.0 to 3.6	-	5.4	10.1	-	10.3	
		C _L = 15 pF; R _L = 100 kΩ R _L = 5 kΩ R _L = 5 kΩ R _L = 5 kΩ R _L = 5 kΩ							ns
			0.9	-	117.8	-	-	-	
			1.1 to 1.3	-	9.8	18.4	-	25.1	
			1.4 to 1.6	-	7.8	9.8	-	11.3	
			1.65 to 1.95	-	7.2	9.2	-	10.6	
			2.3 to 2.7	-	7	8.2	-	10.3	
			3.0 to 3.6	-	6.6	11.1	-	11.3	
		C _L = 30 pF; R _L = 100 kΩ R _L = 5 kΩ R _L = 5 kΩ R _L = 5 kΩ R _L = 5 kΩ							ns
			0.9	-	202.1	-	-	-	
			1.1 to 1.3	-	13.2	24.3	-	31.9	
			1.4 to 1.6	-	12.2	13.5	-	14.9	
			1.65 to 1.95	-	11.4	12.7	-	13.9	
			2.3 to 2.7	-	11.3	12.2	-	13.5	
			3.0 to 3.6	-	10.2	14.8	-	15.1	
C _{IN}	Input Capacitance		0 to 3.6		3	-	-	-	pF
C _O	Output Capacitance	V _O = GND	0		3	-	-	-	pF
C _{PD}	Power Dissipation Capacitance (Note 5)	f = 10 MHz	0.9 to 3.6	-	4	-	-	-	pF

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.

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}.

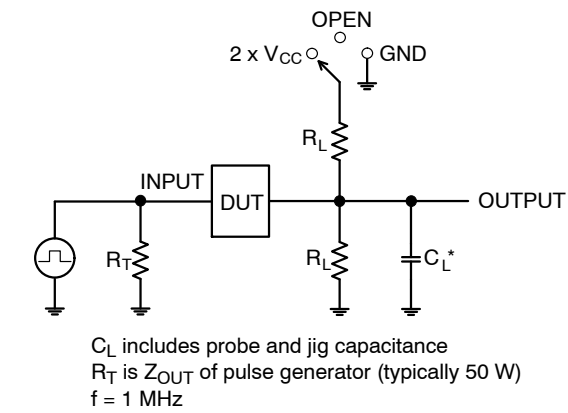


Figure 5. Test Circuit

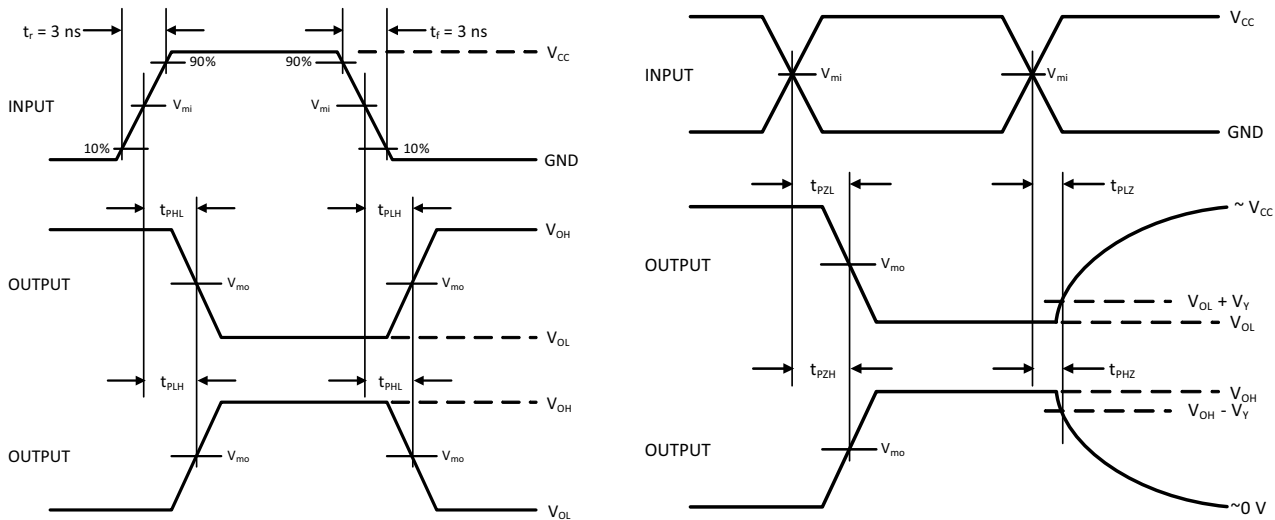


Figure 6. Switching Waveforms

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

NL17SG125

ORDERING INFORMATION

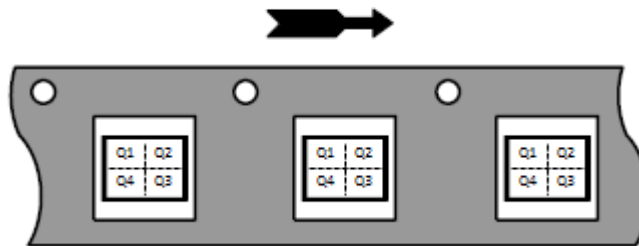
Device	Marking	Pin 1 Orientation (See below)	Package	Shipping [†]
NL17SG125DFT2G	A4	Q4	SC-88A	3000 / Tape & Reel
NL17SG125P5T5G	F (Rotated 90°CW)	Q2	SOT-953	8000 / Tape & Reel
NL17SG125MU1TCG (Contact onsemi)	TBD	Q4	UDFN6 1.45 x 1 mm	3000 / Tape & Reel
NL17SG125MU3TCG (Contact onsemi)	TBD	Q4	UDFN6 1 x 1 mm	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-Q101 Qualified and PPAP Capable.

PIN 1 ORIENTATION IN TAPE AND REEL

Direction of Feed

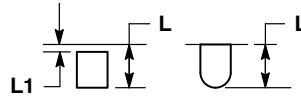
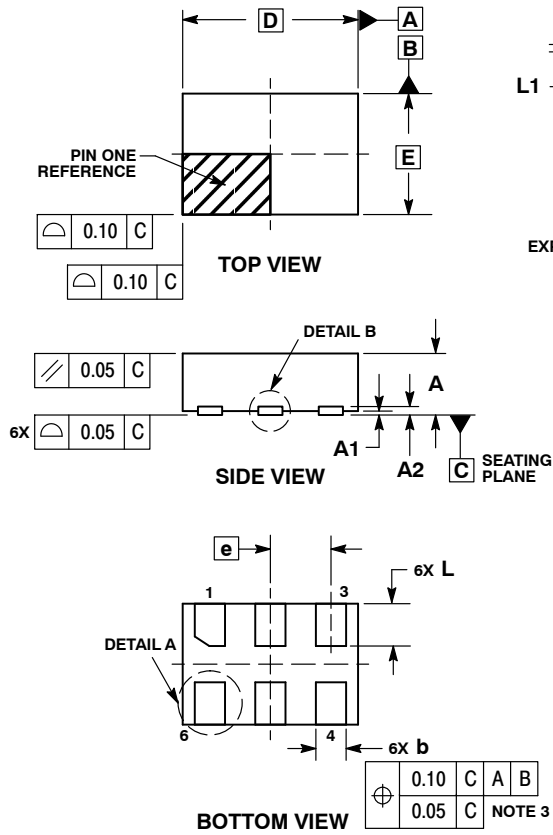


MiniGate is trademark of Semiconductor Components Industries, LLC (SCILLC) or its subsidiaries in the United States and/or other countries.

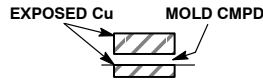
NL17SG125

PACKAGE DIMENSIONS

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



DETAIL A
OPTIONAL
CONSTRUCTIONS



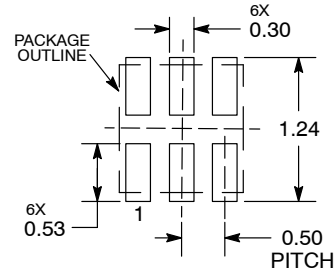
DETAIL B
OPTIONAL
CONSTRUCTIONS

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



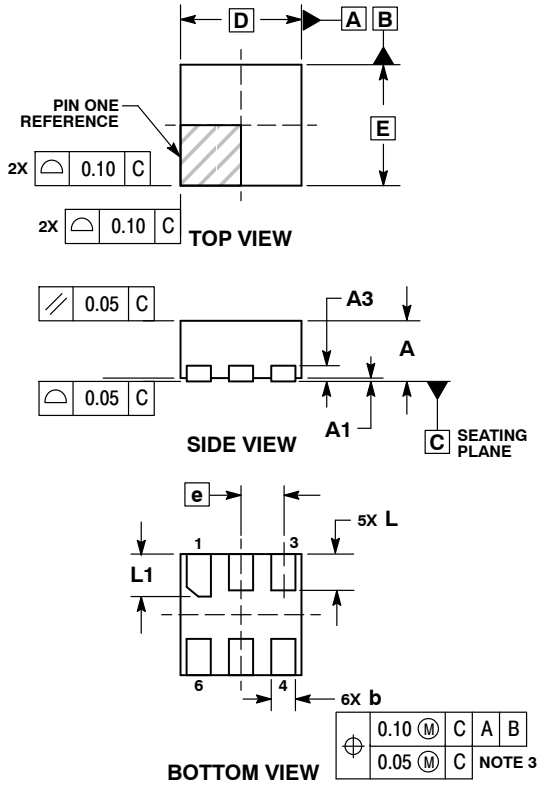
DIMENSIONS: MILLIMETERS

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

NL17SG125

PACKAGE DIMENSIONS

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

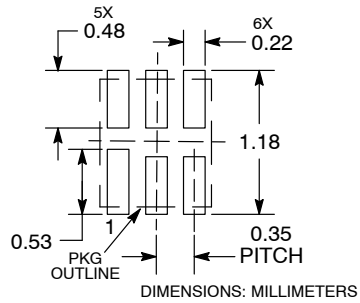


NOTES:

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.

MILLIMETERS		
DIM	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*



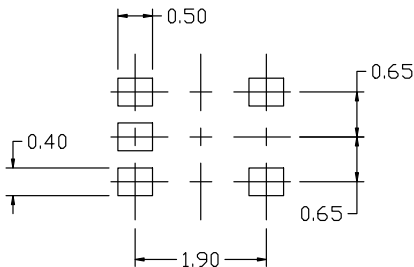
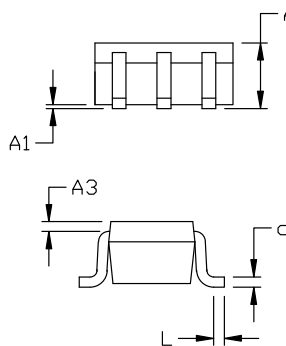
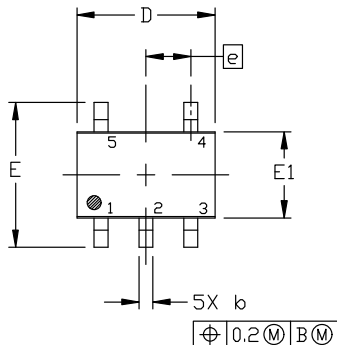
*For additional information on our Pb-Free strategy and soldering details, please download the **onsemi** Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.



SCALE 2:1

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

DATE 11 APR 2023



RECOMMENDED
MOUNTING FOOTPRINT

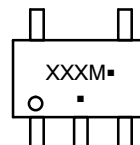
* For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

NOTES:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: MILLIMETERS
3. 419A-01 OBSOLETE. 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		
	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

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
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

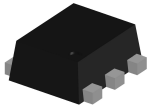
STYLE 9:

- 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.

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:	SC-88A (SC-70-5/SOT-353)	PAGE 1 OF 1

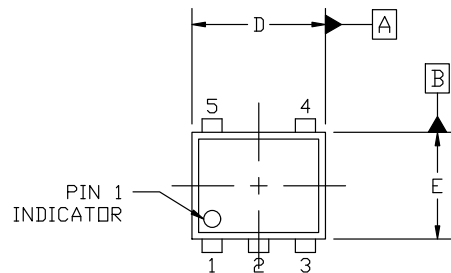
onsemi and onsemi are trademarks of Semiconductor Components Industries, LLC dba onsemi or its subsidiaries in the United States and/or other countries. onsemi reserves the right to make changes without further notice to any products herein. onsemi makes no warranty, representation or guarantee regarding 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.


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

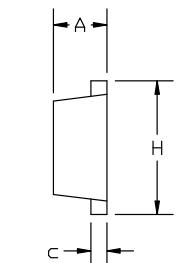
DATE 17 JAN 2024

NOTES:

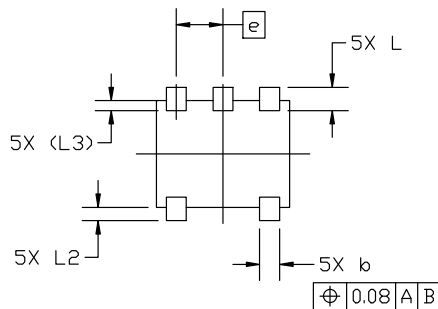
1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 2018.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF THE BASE MATERIAL.
4. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR GATE BURRS.



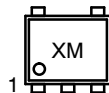
TOP VIEW



SIDE VIEW



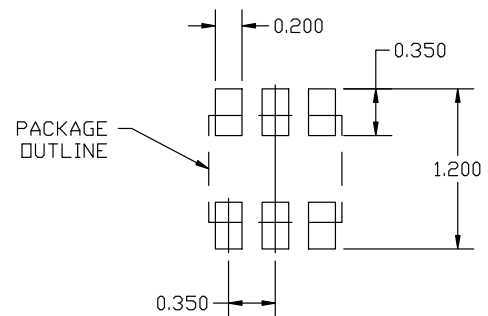
BOTTOM VIEW

GENERIC
MARKING DIAGRAM*

X = Specific Device Code
M = Month 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	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, SOLDERRM/D.

DOCUMENT NUMBER:	98AON26457D	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-953 1.00x0.80x0.37, 0.35P	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.

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:

Technical Library: 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