# DUSEU

**NL17SZ08** 

• 2.7 ns  $t_{PD}$  at  $V_{CC} = 5 V (typ)$ 

Source/Sink 24 mA at 3.0 V

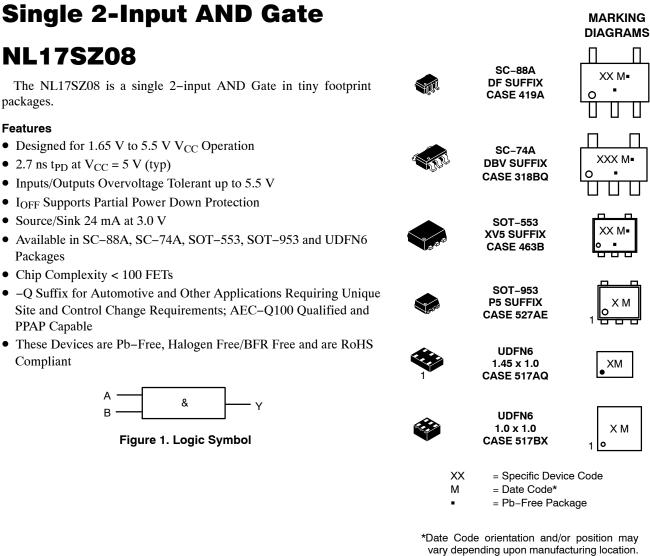
R

packages. Features

Packages

**PPAP** Capable

Compliant

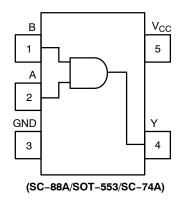


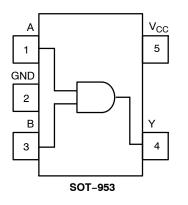
(Note: Microdot may be in either location)

### **ORDERING INFORMATION**

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

# NL17SZ08





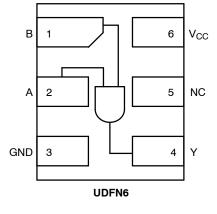


Figure 2. Pinout (Top View)

# PIN ASSIGNMENT

(SC-88A/SOT-553/SC-74A)

Pin	Function
1	В
2	А
3	GND
4	Y
5	V <sub>CC</sub>

# PIN ASSIGNMENT (SOT-953)

Function
А
GND
В
Y
V <sub>CC</sub>

### **PIN ASSIGNMENT (UDFN)**

Pin	Function
1	В
2	A
3	GND
4	Y
5	NC
6	V <sub>CC</sub>

### FUNCTION TABLE

Ing	Output Y = AB	
Α	В	Y
L	L	L
L	Н	L
Н	L	L
Н	Н	Н

# MAXIMUM RATINGS

Symbol	Characteristics		Value	Unit
V <sub>CC</sub>	DC Supply Voltage		–0.5 to +6.5	V
V <sub>IN</sub>	DC Input Voltage		–0.5 to +6.5	V
V <sub>OUT</sub>	DC Output Voltage Active-Mode (Hig Tri-State Power-Down Mo	Mode (Note 1)	-0.5 to V <sub>CC</sub> + 0.5 -0.5 to +6.5 -0.5 to +6.5	V
I <sub>IK</sub>	DC Input Diode Current	V <sub>IN</sub> < GND	-50	mA
Ι <sub>ΟΚ</sub>	DC Output Diode Current	V <sub>OUT</sub> < GND	-50	mA
I <sub>OUT</sub>	DC Output Source/Sink Current		±50	mA
$I_{CC} \text{ or } I_{GND}$	DC Supply Current per Supply Pin or Ground Pin		±100	mA
T <sub>STG</sub>	Storage Temperature Range		-65 to +150	°C
ΤL	Lead Temperature, 1 mm from Case for 10 secs		260	°C
TJ	Junction Temperature Under Bias		+150	°C
$\theta_{JA}$	Thermal Resistance (Note 2)	SC-88A SC-74A SOT-553 SOT-953 UDFN6	377 320 324 254 154	°C/W
P <sub>D</sub>	Power Dissipation in Still Air	SC-88A SC-74A SOT-553 SOT-953 UDFN6	332 390 386 491 812	mW
MSL	Moisture Sensitivity		Level 1	-
F <sub>R</sub>	Flammability Rating Oxygen	Index: 28 to 34	UL 94 V-0 @ 0.125 in	-
$V_{ESD}$		an Body Model d Device Model	2000 1000	V
I <sub>Latchup</sub>	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.

 Applicable to devices with outputs that may be tri-stated.
 Measured with minimum pad spacing on an FR4 board, using 10mm-by-1inch, 2 ounce copper trace no air flow per JESD51-7.
 HBM tested to ANSI/ESDA/JEDEC JS-001-2017. CDM tested to EIA/JESD22-C101-F. JEDEC recommends that ESD qualification to EIA/JESD22–A115–A (Machine Model) be discontinued per JEDEC/JEP172A. 4. Tested to EIA/JESD78 Class II.

## **RECOMMENDED OPERATING CONDITIONS**

Symbol	Cha	Min	Max	Unit	
V <sub>CC</sub>	Positive DC Supply Voltage		1.65	5.5	V
V <sub>IN</sub>	DC Input Voltage		0	5.5	V
V <sub>OUT</sub>	DC Output Voltage	Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V <sub>CC</sub> = 0 V)	0 0 0	V <sub>CC</sub> 5.5 5.5	V
T <sub>A</sub>	Operating Temperature Range		-55	+125	°C
t <sub>r</sub> , t <sub>f</sub>	Input Rise and Fall Time	$\begin{array}{l} V_{CC} = 1.65 \ V \ to \ 1.95 \ V \\ V_{CC} = 2.3 \ V \ to \ 2.7 \ V \\ V_{CC} = 3.0 \ V \ to \ 3.6 \ V \\ V_{CC} = 4.5 \ V \ to \ 5.5 \ V \end{array}$	0 0 0 0	20 20 10 5	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.

			Vcc	Т	T <sub>A</sub> = 25°C			A ≤ 125°C	
Symbol	Parameter	Condition	(V)	Min	Тур	Max	Min	Max	Units
V <sub>IH</sub>	High-Level Input Volt	age	1.65 to 1.95	$0.65 \times V_{CC}$	-	-	$0.65 \times V_{CC}$	-	V
			2.3 to 5.5	$0.70 \times V_{CC}$	-	-	$0.70 \times V_{CC}$	-	
V <sub>IL</sub>	Low-Level Input Volta	age	1.65 to 1.95	-	-	$0.35 \times V_{CC}$	-	$0.35 \times V_{CC}$	V
			2.3 to 5.5	-	-	$0.30 \times V_{CC}$	-	$0.30 \times V_{CC}$	
V <sub>OH</sub>	High-Level Output Voltage	$ \begin{array}{l} V_{IN} = V_{IH} \mbox{ or } V_{IL} \\ I_{OH} = -100 \ \mu A \\ I_{OH} = -4 \ mA \\ I_{OH} = -8 \ mA \\ I_{OH} = -12 \ mA \\ I_{OH} = -16 \ mA \\ I_{OH} = -24 \ mA \\ I_{OH} = -32 \ mA \end{array} $	1.65 to 5.5 1.65 2.3 2.7 3.0 3.0 4.5	$\begin{array}{c} V_{CC} = 0.1 \\ 1.29 \\ 1.9 \\ 2.2 \\ 2.4 \\ 2.3 \\ 3.8 \end{array}$	V <sub>CC</sub> 1.4 2.1 2.4 2.7 2.5 4.0		$\begin{array}{c} V_{CC} - 0.1 \\ 1.29 \\ 1.9 \\ 2.2 \\ 2.4 \\ 2.3 \\ 3.8 \end{array}$		V
V <sub>OL</sub>	Low-Level Output Voltage		1.65 to 5.5 1.65 2.3 2.7 3.0 3.0 4.5		- 0.08 0.2 0.22 0.28 0.38 0.42	0.1 0.24 0.3 0.4 0.4 0.55 0.55		0.1 0.24 0.3 0.4 0.4 0.55 0.55	V
I <sub>IN</sub>	Input Leakage Cur- rent	V <sub>IN</sub> = 5.5 V or GND	1.65 to 5.5	-	_	±0.1	_	±1.0	μΑ
I <sub>OFF</sub>	Power Off Leakage Current	$V_{IN}$ = 5.5 V or $V_{OUT}$ = 5.5 V	0	_	-	1.0	_	10	μA
I <sub>CC</sub>	Quiescent Supply Current	$V_{IN} = V_{CC}$ or GND	5.5	-	-	1.0	_	10	μA

#### DC ELECTRICAL CHARACTERISTICS

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.

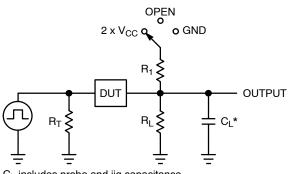
# AC ELECTRICAL CHARACTERISTICS

			V <sub>cc</sub>	T,	д = 25°	С	–55°C ≤ T	չ ≤ 125°C	
Symbol	Parameter	Condition	(V)	Min	Тур	Max	Min	Max	Units
t <sub>₽LH</sub> ,	Propagation Delay, A to Y	$R_L$ = 1 M $\Omega$ , $C_L$ = 15 pF	1.65 to 1.95	-	6.3	12	-	12.7	ns
t <sub>PHL</sub>	(Figures 3 and 4)	$R_L$ = 1 M $\Omega$ , $C_L$ = 15 pF	2.3 to 2.7	-	3.4	7.0	-	7.5	
		$R_L$ = 1 MΩ, $C_L$ = 15 pF	3.0 to 3.6	-	2.6	4.7	-	5.0	
		$R_L = 500 \Omega$ , $C_L = 50 pF$		-	3.3	5.2	-	5.5	
		$R_L$ = 1 MΩ, $C_L$ = 15 pF	4.5 to 5.5	-	2.2	4.1	-	4.4	
		$R_L = 500 \ \Omega, \ C_L = 50 \ pF$		_	2.7	4.5	-	4.8	

### CAPACITIVE CHARACTERISTICS

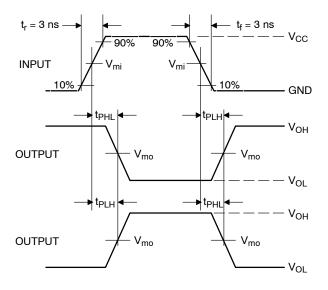
Symbol	Parameter	Condition	Typical	Units
C <sub>IN</sub>	Input Capacitance	$V_{CC}$ = 5.5 V, $V_{IN}$ = 0 V or $V_{CC}$	2.5	pF
C <sub>OUT</sub>	Output Capacitance	$V_{CC}$ = 5.5 V, $V_{IN}$ = 0 V or $V_{CC}$	2.5	pF
C <sub>PD</sub>	Power Dissipation Capacitance (Note 5)	10 MHz, V <sub>CC</sub> = 3.3 V, V <sub>IN</sub> = 0 V or V <sub>CC</sub> 10 MHz, V <sub>CC</sub> = 5.5 V, V <sub>IN</sub> = 0 V or V <sub>CC</sub>	9 11	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:  $I_{CC(OPR)} = C_{PD} \bullet V_{CC} \bullet f_{in} + I_{CC}$ .  $C_{PD}$  is used to determine the no–load dynamic power consumption;  $P_D = C_{PD} \bullet V_{CC}^2 \bullet f_{in} + I_{CC} \bullet V_{CC}$ .



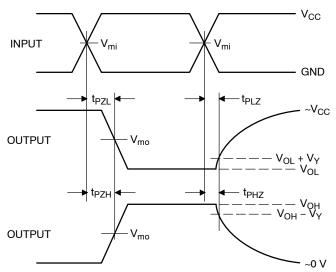
 $C_L$  includes probe and jig capacitance  $R_T$  is  $Z_{OUT}$  of pulse generator (typically 50  $\Omega$ ) f = 1 MHz

# Figure 3. Test Circuit



Switch Position	C <sub>L</sub> , pF	$R_{L}, \Omega$	R <sub>1</sub> , Ω
Open	See AC Character	istics Tat	ole
$2 \times V_{CC}$	50	500	500
GND	50	500	500
	Position Open 2 x V <sub>CC</sub>	Position      Entropy        Open      See AC Character        2 x V <sub>CC</sub> 50	Position      End        Open      See AC Characteristics Tall        2 x V <sub>CC</sub> 50

X = Don't Care



### Figure 4. Switching Waveforms

		Vm		
V <sub>CC</sub> , V	V <sub>mi</sub> , V	t <sub>PLH</sub> , t <sub>PHL</sub>	t <sub>PZL</sub> , t <sub>PLZ</sub> , t <sub>PZH</sub> , t <sub>PHZ</sub>	V <sub>Y</sub> , V
1.65 to 1.95	V <sub>CC</sub> /2	V <sub>CC</sub> /2	V <sub>CC</sub> /2	0.15
2.3 to 2.7	V <sub>CC</sub> /2	V <sub>CC</sub> /2	V <sub>CC</sub> /2	0.15
3.0 to 3.6	V <sub>CC</sub> /2	V <sub>CC</sub> /2	V <sub>CC</sub> /2	0.3
4.5 to 5.5	V <sub>CC</sub> /2	V <sub>CC</sub> /2	V <sub>CC</sub> /2	0.3

### **DEVICE ORDERING INFORMATION**

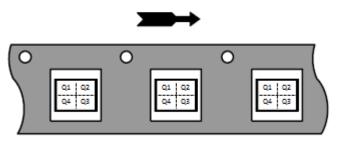
Device	Packages	Specific Device Code	Pin 1 Orientation (See below)	Shipping <sup>†</sup>
NL17SZ08DFT2G	SC-88A	L2	Q4	3000 / Tape & Reel
NL17SZ08DFT2G-Q*	SC-88A	L2	Q4	3000 / Tape & Reel
NL17SZ08DBVT1G	SC-74A	AH	Q4	3000 / Tape & Reel
NL17SZ08DBVT1G-Q*	SC-74A	AH	Q4	3000 / Tape & Reel
NL17SZ08XV5T2G	SOT-553	L2	Q4	4000 / Tape & Reel
NL17SZ08P5T5G	SOT-953	E (Rotated 180° CW)	Q2	8000 / Tape & Reel
NL17SZ08MU1TCG	UDFN6, 1.45 x 1.0, 0.5P	D (Rotated 180° CW)	Q4	3000 / Tape & Reel
NL17SZ08MU3TCG	UDFN6, 1.0 x 1.0, 0.35P	P (Rotated 180° CW)	Q4	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-Q100 Qualified and PPAP

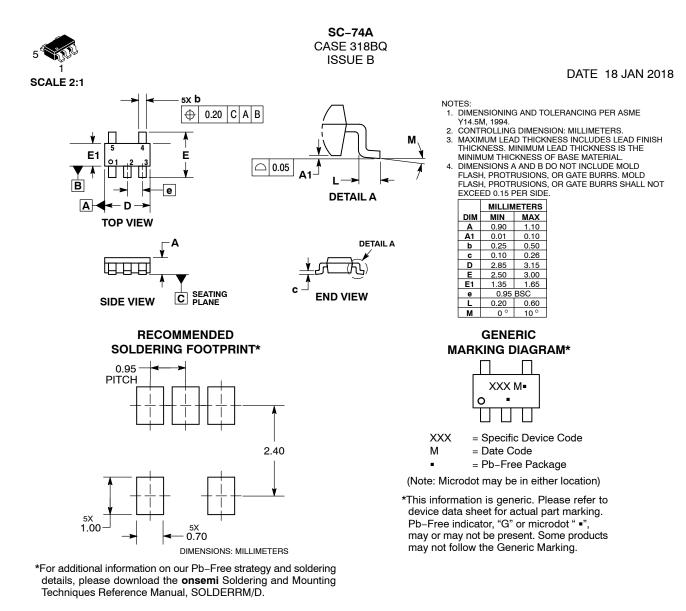
Capable.

# Pin 1 Orientation in Tape and Reel

# **Direction of Feed**



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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

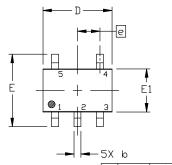
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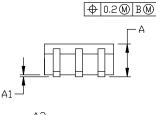
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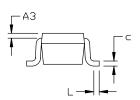
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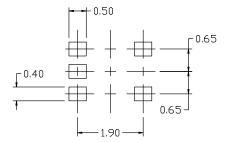
4.

DATE 11 APR 2023









#### 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.

лтм	MI	LLIMETE	RS
DIM	MIN.	NDM.	MAX.
Α	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

DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.

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.

CONTROLLING DIMENSION: MILLIMETERS 419A-01 DBSDLETE, NEW STANDARD 419A-02

# **GENERIC MARKING**





\*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.

(Note: Microdot may be in either location)

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	PIN 1. EMITTER 2 2. BASE 2 3. EMITTER 1 4. COLLECTOR 5. COLLECTOR 2/BASE	PIN 1. BASE 2. EMITTER 3. BASE 4. COLLECTOR 1 5. COLLECTOR	PIN 1. CATHODE 2. COLLECTOR 3. N/C 4. BASE 5. EMITTER	PIN 1. ANODE 2. CATHODE 3. ANODE 4. ANODE 5. ANODE	style callout. If style t out in the datasheet datasheet pinout or p	refer to the device
DESCRIPTION: SC-88A (SC-70-5/SOT-353) PAGE 1 OF 1	DOCUMENT NUMBER:	98ASB42984B				
	DESCRIPTION:	SC-88A (SC-70-	5/SOT-353)			PAGE 1 OF 1

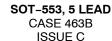
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XXX = Specific Device Code

M = Date Code = Pb-Free Package

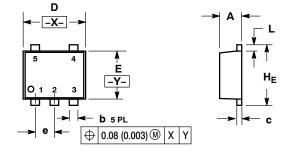
#### **MECHANICAL CASE OUTLINE** PACKAGE DIMENSIONS

SCALE 4:1

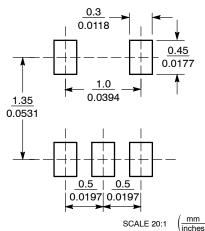


#### DATE 20 MAR 2013

DUSem



#### 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

1. 2.

IES: DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982. CONTROLLING DIMENSION: MILLIMETERS MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH THICKNESS. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL. 3.

	MILLIMETERS				INCHES	
DIM	MIN	NOM	MAX	MIN	NOM	MAX
Α	0.50	0.55	0.60	0.020	0.022	0.024
b	0.17	0.22	0.27	0.007	0.009	0.011
С	0.08	0.13	0.18	0.003	0.005	0.007
D	1.55	1.60	1.65	0.061	0.063	0.065
E	1.15	1.20	1.25	0.045	0.047	0.049
е	0.50 BSC			0.020 BSC	)	
L	0.10	0.20	0.30	0.004	0.008	0.012
HE	1.55	1.60	1.65	0.061	0.063	0.065

# GENERIC **MARKING DIAGRAM\***

#### XXM=

XX = Specific Device Code

M = Date Code

= Pb-Free Package

(Note: Microdot may be in either location)

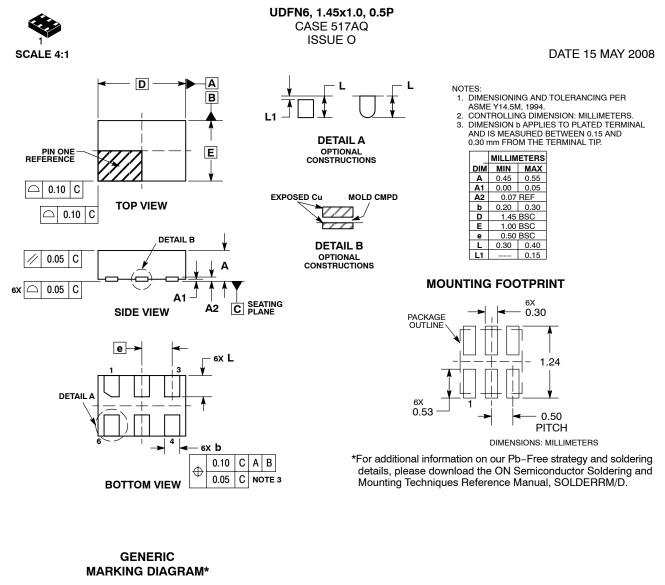
\*This information is generic. Please refer to device data sheet for actual part marking. Pb–Free indicator, "G" or microdot "■", may or may not be present. Some products may not follow the Generic Marking.

STYLE 1:	STYLE 2:	STYLE 3:	STYLE 4:	STYLE 5:
PIN 1. BASE	PIN 1. CATHODE	PIN 1. ANODE 1	PIN 1. SOURCE 1	PIN 1. ANODE
2. EMITTER	2. COMMON ANODE	2. N/C	2. DRAIN 1/2	2. EMITTER
3. BASE	3. CATHODE 2	3. ANODE 2	3. SOURCE 1	3. BASE
4. COLLECTOR	4. CATHODE 3	4. CATHODE 2	4. GATE 1	4. COLLECTOR
5. COLLECTOR	5. CATHODE 4	5. CATHODE 1	5. GATE 2	5. CATHODE
STYLE 6:	STYLE 7:	STYLE 8:	STYLE 9:	
PIN 1. EMITTER 2	PIN 1. BASE	PIN 1. CATHODE	PIN 1. ANODE	
2. BASE 2	2. EMITTER	2. COLLECTOR	2. CATHODE	
3. EMITTER 1	3. BASE	3. N/C	3. ANODE	
4. COLLECTOR 1	4. COLLECTOR	4. BASE	4. ANODE	
5. COLLECTOR 2/BASE 1	5. COLLECTOR	5. EMITTER	5. ANODE	

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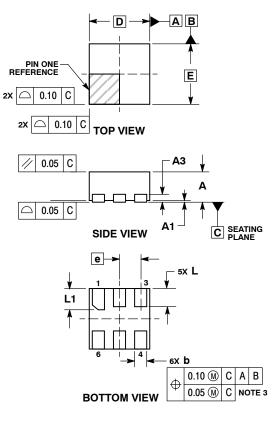
- X = Specific Device Code
- M = Date Code
- \*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot " •", may or may not be present.

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DESCRIPTION:	UDFN6, 1.45x1.0, 0.5P PAGE 1 OF				
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# DUSem



SCALE 4:1



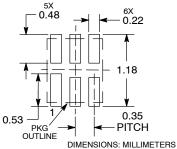
UDFN6, 1x1, 0.35P CASE 517BX **ISSUE O** 

#### DATE 18 MAY 2011

- NOTES: 1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994. 2. CONTROLLING DIMENSION: MILLIMETERS. 3. DIMENSION & APPLIES TO PLATED TERMINAL AND IS MEASURED BETWEEN A DE ADD & OR MULTICAL TERMINAL TR
- AND 0.20 MM FROM TERMINAL TIP.
  PACKAGE DIMENSIONS EXCLUSIVE OF BURRS AND MOLD FLASH.

BURRS AND MOLD FL				
	MILLIMETERS			
DIM	MIN	MAX		
Α	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			
е	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 ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

#### GENERIC **MARKING DIAGRAM\***



X = Specific Device Code M = Date Code

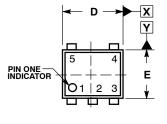
\*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "•", may or may not be present. Some products may not follow the Generic Marking.

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DESCRIPTION:	UDFN6, 1x1, 0.35P PAGE 1 OF				
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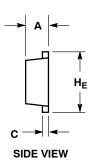
# **NSEM**



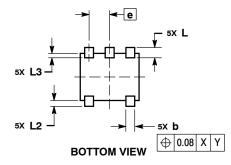
SCALE 4:1



TOP VIEW



SOT-953 CASE 527AE ISSUE E



GENERIC **MARKING DIAGRAM\*** 



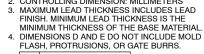
= Specific Device Code Х Μ = Month Code

\*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.

DATE 02 AUG 2011

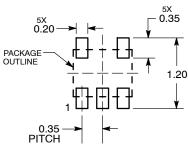
NOTES: 1. DIMENSIONING AND TOLERANCING PER ASME

Y14.5M, 1994. 2. CONTROLLING DIMENSION: MILLIMETERS З.



,				
	MILLIMETERS			
DIM	MIN	NOM	MAX	
Α	0.34	0.37	0.40	
b	0.10	0.15	0.20	
С	0.07	0.12	0.17	
D	0.95	1.00	1.05	
Е	0.75	0.80	0.85	
е	0.35 BSC			
ΗE	0.95	1.00	1.05	
L	0.175 REF			
L2	0.05	0.10	0.15	
L3			0.15	

#### RECOMMENDED SOLDERING 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.

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