# **ON Semiconductor**

# Is Now



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# **Dual Inverter**

# **NL27WZ04**

The NL27WZ04 is a high performance dual inverter operating from a 1.65 to 5.5 V supply.

#### **Features**

- Designed for 1.65 V to 5.5 V V<sub>CC</sub> Operation
- 2.0 ns  $t_{PD}$  at  $V_{CC} = 5 \text{ V (Typ)}$
- Inputs/Outputs Overvoltage Tolerant up to 5.5 V
- I<sub>OFF</sub> Supports Partial Power Down Protection
- Sink 32 mA at 4.5 V
- Available in SC-88, SC-74 and UDFN6 Packages
- Chip Complexity < 100 FETs
- NLV Prefix 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/BFR Free and are RoHS Compliant

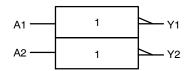
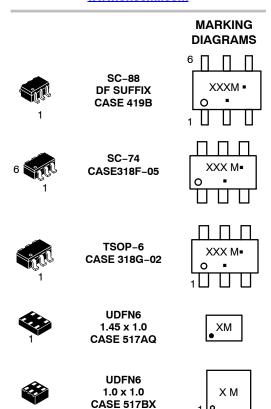


Figure 1. Logic Symbol



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X, XXX = 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.

#### **ORDERING INFORMATION**

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

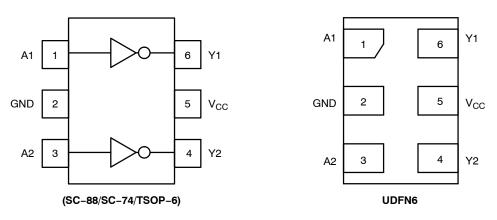


Figure 2. Pinout (Top View)

# **PIN ASSIGNMENT**

Pin	Function
1	A1
2	GND
3	A2
4	Y2
5	V <sub>CC</sub>
6	Y1

# **FUNCTION TABLE**

A Input	Y Output
L	Н
Н	L

### **MAXIMUM RATINGS**

Symbol	Chara	Value	Unit	
V <sub>CC</sub>	DC Supply Voltage	SC-88 (NLV) SC-88, SC-74, UDFN6	-0.5 to +7.0 -0.5 to +6.5	V
$V_{IN}$	DC Input Voltage	SC-88 (NLV) SC-88, SC-74, UDFN6	-0.5 to +7.0 -0.5 to +6.5	V
V <sub>OUT</sub>	DC Output Voltage SC-88 (NLV)	Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V <sub>CC</sub> = 0 V)	-0.5 to V <sub>CC</sub> + 0.5 -0.5 to +7.0 -0.5 to +7.0	V
	DC Output Voltage SC-88, SC-74, UDFN6	Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V <sub>CC</sub> = 0 V)	-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
I <sub>OK</sub>	DC Output Diode Current	V <sub>OUT</sub> < GND	-50	mA
I <sub>OUT</sub>	DC Output Source/Sink Current		±50	mA
I <sub>CC</sub> or I <sub>GND</sub>	DC Supply Current per Supply Pin or 0	±100	mA	
T <sub>STG</sub>	Storage Temperature Range		-65 to +150	°C
TL	Lead Temperature, 1 mm from Case for	or 10 secs	260	°C
TJ	Junction Temperature Under Bias		+150	°C
$\theta_{\sf JA}$	Thermal Resistance (Note 2)	SC-88 SC-74 UDFN6	377 320 154	°C/W
$P_{D}$	Power Dissipation in Still Air	SC-88 SC-74 UDFN6	332 390 812	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 <sub>ESD</sub>	ESD Withstand Voltage (Note 3)	Human Body Model Charged Device Model (NLV) Charged Device Model	2000 1000 N/A	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	Characteristics			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	
T <sub>A</sub>	Operating Temperature Range		-55	+125	°C
t <sub>r</sub> , t <sub>f</sub>	Input Rise and Fall Time	$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$ $V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$ $V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$ $V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$	0 0 0	20 20 10 5	ns

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.

## DC ELECTRICAL CHARACTERISTICS

			V <sub>CC</sub>	Т,	4 = 25°0		-55°C ≤ T	<sub>A</sub> ≤ 125°C	
Symbol	Parameter	Condition	(V)	Min	Тур	Max	Min	Max	Units
V <sub>IH</sub>	High-Level Input		1.65 to 1.95	0.65 V <sub>CC</sub>	-	_	0.65 V <sub>CC</sub>	_	٧
	Voltage		2.3 to 5.5	0.70 V <sub>CC</sub>	-	_	0.70 V <sub>CC</sub>	_	
V <sub>IL</sub>	Low-Level Input		1.65 to 1.95	-	-	0.35 V <sub>CC</sub>	-	0.35 V <sub>CC</sub>	٧
	Voltage		2.3 to 5.5	_	-	0.30 V <sub>CC</sub>	-	0.30 V <sub>CC</sub>	
V <sub>ОН</sub>	High-Level Output Voltage	$\begin{split} V_{IN} &= V_{IH} \text{ or } V_{IL} \\ I_{OH} &= -100  \mu\text{A} \\ I_{OH} &= -3 \text{ mA} \\ I_{OH} &= -8 \text{ mA} \\ I_{OH} &= -12 \text{ mA} \\ I_{OH} &= -16 \text{ mA} \\ I_{OH} &= -24 \text{ mA} \\ I_{OH} &= -32 \text{ mA} \end{split}$	1.65 to 5.5 1.65 2.3 2.7 3 3 4.5	V <sub>CC</sub> - 0.1 1.29 1.9 2.2 2.4 2.3 3.8	V <sub>CC</sub> 1.52 2.1 2.4 2.7 2.5 4	- - - - -	V <sub>CC</sub> - 0.1 1.29 1.9 2.2 2.4 2.3 3.8	- - - - -	V
V <sub>OL</sub>	Low-Level Output Voltage	$\begin{array}{l} V_{IN} = V_{IH} \text{ or } V_{IL} \\ I_{OH} = 100 \ \mu\text{A} \\ I_{OH} = 3 \ \text{mA} \\ I_{OH} = 8 \ \text{mA} \\ I_{OH} = 12 \ \text{mA} \\ I_{OH} = 16 \ \text{mA} \\ I_{OH} = 24 \ \text{mA} \\ I_{OH} = 32 \ \text{mA} \end{array}$	1.65 to 5.5 1.65 2.3 2.7 3 3 4.5	- - - -	- 0.08 0.12 0.2 0.24 0.26 0.31	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	V
I <sub>IN</sub>	Input Leakage Current	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 <sub>IN</sub> = 5.5 V or V <sub>OUT</sub> = 5.5 V	0	-	=	1.0	-	10	μΑ
I <sub>CC</sub>	Quiescent Supply Current	V <sub>IN</sub> = V <sub>CC</sub> or GND	5.5	-	-	1.0	-	10	μΑ

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.

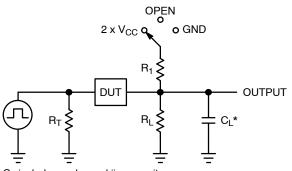
## **AC ELECTRICAL CHARACTERISTICS**

				T <sub>A</sub> = 25°C		$-55^{\circ}\text{C} \leq \text{T}_{\text{A}} \leq 125^{\circ}\text{C}$			
Symbol	Parameter	Condition	V <sub>CC</sub> (V)	Min	Тур	Max	Min	Max	Units
t <sub>PLH</sub> ,	Propagation Delay A to Y	$R_L = 1 M\Omega$ , $C_L = 50 pF$	1.65 to 1.95	-	2.3	9.2	-	11.0	ns
t <sub>PHL</sub>	(Figure 3 and 4)	$R_L = 1 \text{ M}\Omega$ , $C_L = 15 \text{ pF}$	2.3 to 2.7	-	3.0	5.1	-	5.6	
		$R_L = 1 M\Omega$ , $C_L = 15 pF$	3.0 to 3.6	-	2.2	3.4	-	3.8	
		$R_L = 500 \Omega, C_L = 50 pF$		-	2.9	4.5	-	5.0	
		$R_L = 1 M\Omega$ , $C_L = 15 pF$	4.5 to 5.5	-	1.8	2.8	-	3.1	
		$R_L = 500 \Omega, C_L = 50 pF$		-	2.3	3.6	-	4.0	

# **CAPACITIVE CHARACTERISTICS**

Symbol	Parameter	Condition	Typical	Units
C <sub>IN</sub>	Input Capacitance	$V_{CC} = 5.5 \text{ V}, V_{IN} = 0 \text{ V or } V_{CC}$	2.5	pF
C <sub>OUT</sub>	Output Capacitance	$V_{CC}$ = 5.5 V, $V_{IN}$ = 0 V or $V_{CC}$	4.0	pF
C <sub>PD</sub>	Power Dissipation Capacitance (Note 5)	10 MHz, $V_{CC}$ = 5.5 V, $V_{IN}$ = 0 V or $V_{CC}$	4.0	pF

<sup>5.</sup> C<sub>PD</sub> 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<sub>CC(OPR)</sub> = C<sub>PD</sub> • V<sub>CC</sub> • f<sub>in</sub> + I<sub>CC</sub>. C<sub>PD</sub> is used to determine the no–load dynamic power consumption; P<sub>D</sub> = C<sub>PD</sub> • V<sub>CC</sub><sup>2</sup> • f<sub>in</sub> + I<sub>CC</sub> • V<sub>CC</sub>.



Test	Switch Position	C <sub>L</sub> , pF	$R_L, \Omega$	R <sub>1</sub> , Ω	
t <sub>PLH</sub> / t <sub>PHL</sub>	Open	See AC Characteristics Table			
t <sub>PLZ</sub> / t <sub>PZL</sub>	2 x V <sub>CC</sub>	50	500	500	
t <sub>PHZ</sub> / t <sub>PZH</sub>	GND	50	500	500	

X = Don't Care

C<sub>L</sub> includes probe and jig capacitance  $R_T$  is  $Z_{OUT}$  of pulse generator (typically 50  $\Omega$ ) f=1 MHz

Figure 3. Test Circuit

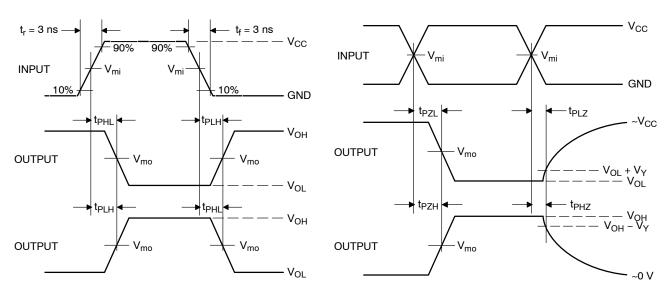


Figure 4. Switching Waveforms

		V <sub>m</sub>		
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

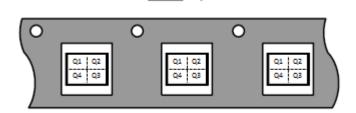
### **DEVICE ORDERING INFORMATION**

Device	Packages	Specific Device Code	Pin 1 Orientation (See below)	Shipping <sup>†</sup>
NL27WZ04DFT2G	SC-88	M5	Q4	3000 / Tape & Reel
NLV27WZ04DFT2G*	SC-88	M5	Q4	3000 / Tape & Reel
NL27WZ04DFT1G	SC-88	M5	Q2	3000 / Tape & Reel
NLV27WZ04DFT1G *	SC-88	M5	Q2	3000 / Tape & Reel
NL27WZ04DBVT1G	SC-74	M5	Q4	3000 / Tape & Reel
NL27WZ04DTT1G	TSOP-6	M5	Q4	3000 / Tape & Reel
NL27WZ04MU1TCG (In Development)	UDFN6, 1.45 x 1.0, 0.5P	2 (Rotated 90° CW)	Q4	3000 / Tape & Reel
NL27WZ04MU3TCG (In Development)	UDFN6, 1.0 x 1.0, 0.35P	E (Rotated 180° CW)	Q4	3000 / Tape & Reel

<sup>†</sup>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.

# Pin 1 Orientation in Tape and Reel

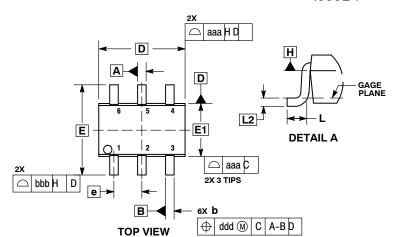
## Direction of Feed

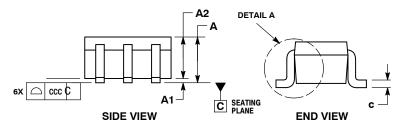


<sup>\*</sup>NLV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q100 Qualified and PPAP Capable.

#### PACKAGE DIMENSIONS

SC-88/SC70-6/SOT-363 CASE 419B - 02 **ISSUE Y** 





- NOTES:

  1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.

  2. CONTROLLING DIMENSION: MILLIMETERS.

  3. DIMENSIONS D AND E1 DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR GATE BURRS. MOLD FLASH, PROTRUSIONS, OR GATE BURRS. MOLD FLASH, PROTRUSIONS, OR GATE BURRS SHALL NOT EXCEED 0.20 PER END.

  4. DIMENSIONS D AND E1 AT THE OUTERMOST EXTREMES OF THE PLASTIC BODY AND DATUM H.

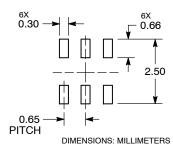
  5. DATUMS A AND B ARE DETERMINED AT DATUM H.

  6. DIMENSIONS D AND C APPLY TO THE FLAT SECTION OF THE LEAD BETWEEN 0.08 AND 0.15 FROM THE TIP.

  7. DIMENSION D DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.08 TOTAL IN EXCESS OF DIMENSION D AT MAXIMUM MATERIAL CONDITION. THE DAMBAR CANNOT BE LOCATED ON THE LOWER RADIUS OF THE FOOT. RADIUS OF THE FOOT.

	MIL	LIMETE	ERS		INCHES	3
DIM	MIN	NOM	MAX	MIN	NOM	MAX
Α			<del>1</del> .10			0.043
A1	0.00		0.10	0.000		0.004
A2	0.70	0.90	1.00	0.027	0.035	0.039
b	0.15	0.20	0.25	0.006	0.008	0.010
С	0.08	0.15	0.22	0.003	0.006	0.009
D	1.80	2.00	2.20	0.070	0.078	0.086
E	2.00	2.10	2.20	0.078	0.082	0.086
E1	1.15	1.25	1.35	0.045	0.049	0.053
е	(	0.65 BS	С	0.026 BSC		
L	0.26	0.36	0.46	0.010	0.014	0.018
L2		0.15 BS	SC .	(	0.006 BS	SC
aaa	0.15				0.006	
bbb	0.30			0.012		
ccc	0.10			0.004		
ddd		0.10			0.004	

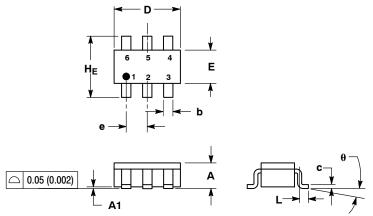
#### **RECOMMENDED SOLDERING FOOTPRINT\***



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

# **PACKAGE DIMENSIONS**

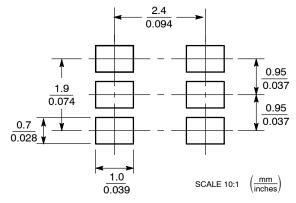
SC-74 CASE 318F-05 **ISSUE N** 



- NOTES:
  1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
  2. CONTROLLING DIMENSION: INCH.
  3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH
  THICKNESS. MINIMUM LEAD THICKNESS IS THE MINIMUM
  THICKNESS OF BASE MATERIAL.
  4. 318F-01, -02, -03, -04 OBSOLETE. NEW STANDARD 318F-05.

	MILLIMETERS			INCHES		
DIM	MIN	NOM	MAX	MIN	NOM	MAX
Α	0.90	1.00	1.10	0.035	0.039	0.043
A1	0.01	0.06	0.10	0.001	0.002	0.004
b	0.25	0.37	0.50	0.010	0.015	0.020
С	0.10	0.18	0.26	0.004	0.007	0.010
D	2.90	3.00	3.10	0.114	0.118	0.122
E	1.30	1.50	1.70	0.051	0.059	0.067
е	0.85	0.95	1.05	0.034	0.037	0.041
L	0.20	0.40	0.60	0.008	0.016	0.024
HE	2.50	2.75	3.00	0.099	0.108	0.118
θ	0°	_	10°	0°	_	10°

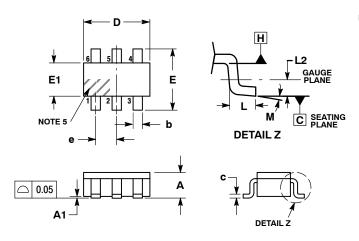
# **SOLDERING FOOTPRINT\***



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

### **PACKAGE DIMENSIONS**

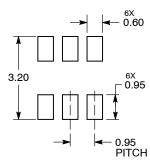
### TSOP-6 CASE 318G-02 ISSUE V



- NOTES: 1. DIM 2. COM 3. MAX
- TES:
  DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
  CONTROLLING DIMENSION: MILLIMETERS.
  MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH. MINIMUM
  LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.
  DIMENSIONS D AND E1 DO NOT INCLUDE MOLD FLASH,
  PROTRUSIONS, OR GATE BURRS. MOLD FLASH, PROTRUSIONS, OR
  GATE BURRS SHALL NOT EXCEED 0.15 PER SIDE. DIMENSIONS D
  AND E4 ARE DETERMINED AT DATIM H AND E1 ARE DETERMINED AT DATUM H.
  5. PIN ONE INDICATOR MUST BE LOCATED IN THE INDICATED ZONE.

	MILLIMETERS		
DIM	MIN	NOM	MAX
Α	0.90	1.00	1.10
A1	0.01	0.06	0.10
b	0.25	0.38	0.50
С	0.10	0.18	0.26
D	2.90	3.00	3.10
E	2.50	2.75	3.00
E1	1.30	1.50	1.70
е	0.85	0.95	1.05
L	0.20	0.40	0.60
L2	0.25 BSC		
М	0°	_	10°

## **RECOMMENDED SOLDERING FOOTPRINT\***

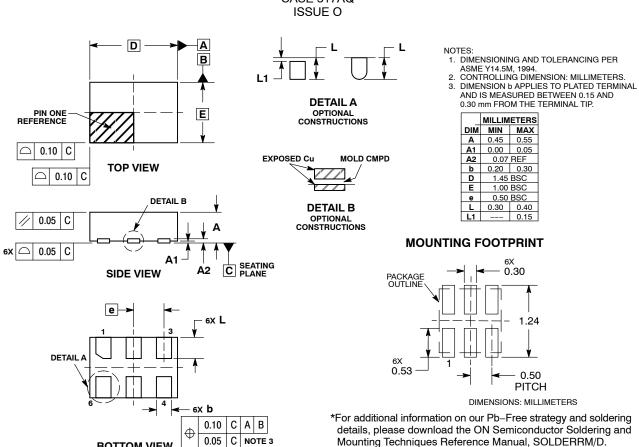


**DIMENSIONS: MILLIMETERS** 

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

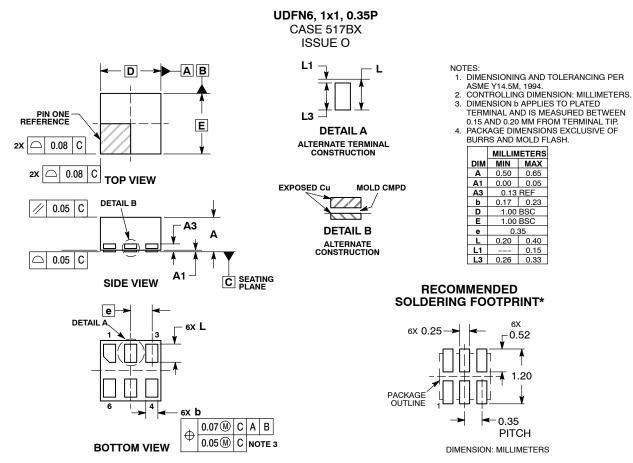
### **PACKAGE DIMENSIONS**

# UDFN6, 1.45x1.0, 0.5P CASE 517AQ



**BOTTOM VIEW** 

#### PACKAGE DIMENSIONS



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