## Dual Schmitt-Trigger Inverter

## **NL27WZ14**

The NL27WZ14 is a high performance dual inverter with Schmitt-Trigger inputs operating from a 1.65 to 5.5 V supply.

#### Features

- $\bullet\,$  Designed for 1.65 V to 5.5 V V\_{CC} Operation
- 3.2 ns  $t_{PD}$  at  $V_{CC} = 5 V (Typ)$
- 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, TSOP-6 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

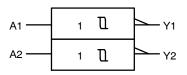
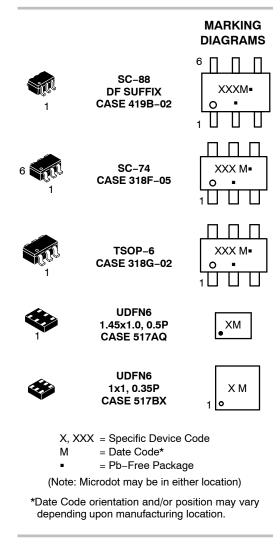


Figure 1. Logic Symbol



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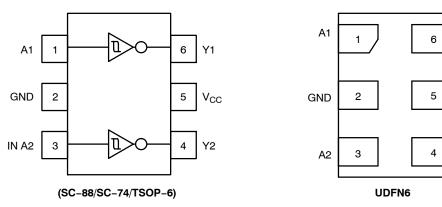
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#### **ORDERING INFORMATION**

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

#### NL27WZ14





#### **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

Y1

 $V_{CC}$ 

Y2

#### MAXIMUM RATINGS

Symbol	Characteristics	Value	Units	
V <sub>CC</sub>	DC Supply Voltage	TSOP-6, SC-88 (NLV) SC-88, SC-74, UDFN6	-0.5 to +7.0 -0.5 to +6.5	V
V <sub>IN</sub>	DC Input Voltage	TSOP-6, 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 TSOP-6, 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)	$\begin{array}{c} -0.5 \text{ to } V_{CC} + 0.5 \\ -0.5 \text{ to } + 6.5 \\ -0.5 \text{ to } + 6.5 \end{array}$	V
Ι <sub>ΙΚ</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
$I_{CC}$ 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-88 SC-74 UDFN6	377 320 154	°C/W
P <sub>D</sub>	Power Dissipation in Still Air	SC-88 SC-74 UDFN6	332 390 812	mW
MSL	Moisture Sensitivity		Level 1	-
F <sub>R</sub>	Flamebility 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
ILATCHUP	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.

Appresented with minimum pad spacing on an FR4 board, using 10 mm-by-1 inch, 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	Para	Min	Мах	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 Transition Rise or Fall Rate	$\begin{array}{c} V_{CC} = 1.65 \ V \ \text{to} \ 1.95 \ \text{V} \\ V_{CC} = 2.3 \ \text{V} \ \text{to} \ 2.7 \ \text{V} \\ V_{CC} = 3.0 \ \text{V} \ \text{to} \ 3.6 \ \text{V} \\ V_{CC} = 4.5 \ \text{V} \ \text{to} \ 5.5 \ \text{V} \end{array}$	0 0 0 0	No Limit No Limit No Limit No Limit	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.

#### NL27WZ14

#### DC ELECTRICAL CHARACTERISTICS

				T <sub>A</sub>	= 25°C		$-40^{\circ}C \le T_A$	≤ 85°C	–55°C ≤ T <sub>A</sub> s	≤ 125°C	
Symbol	Parameter	Condition	V <sub>CC</sub> (V)	Min	Тур	Max	Min	Max	Min	Max	Uni
V <sub>T</sub> +	Positive Input		1.65	_	1.0	1.4	-	1.4	_	1.4	V
	Threshold Voltage		2.3	_	1.5	1.8	_	1.8	_	1.8	
	· · · · · · · · · · · · · · · · · · ·		2.7	_	1.7	2	-	2	_	2	
			3	-	1.9	2.2	-	2.2	-	2.2	
			4.5	-	2.7	3.1	-	3.1	-	3.1	
			5.5	-	3.3	3.6	-	3.6	-	3.6	
V <sub>T</sub> -	Negative		1.65	0.2	0.5	-	0.2	-	0.2	-	V
	Input Threshold		2.3	0.4	0.75	-	0.4	-	0.4	-	
	Voltage		2.7	0.5	0.87	-	0.5	-	0.5	-	
			3	0.6	1.0	-	0.6	-	0.6	-	
			4.5	1.0	1.5	-	1.0	-	1.0	-	
			5.5	1.2	1.9	-	1.2	-	1.2	-	
V <sub>H</sub>	Input		1.65	0.1	0.48	0.9	0.1	0.9	0.1	0.9	V
	Hysteresis Voltage		2.3	0.25	0.75	1.1	0.25	1.1	0.25	1.1	
	· · · · · · · · · · · · · · · · · · ·		2.7	0.3	0.83	1.15	0.3	1.15	0.3	1.15	
			3	0.4	0.93	1.2	0.4	1.2	0.4	1.2	
			4.5	0.6	1.2	1.5	0.6	1.5	0.6	1.5	
			5.5	0.7	1.4	1.7	0.7	1.7	0.7	1.7	
V <sub>OH</sub>	High–Level Output Voltage	I <sub>OH</sub> = -100 μA	1.65 to 5.5	V <sub>CC</sub> - 0.1	V <sub>CC</sub>	-	V <sub>CC</sub> – 0.1	-	V <sub>CC</sub> – 0.1	-	V
		I <sub>OH</sub> = -4 mA	1.65	1.29	1.52	-	1.29	-	1.29	-	
	$V_{IN} = V_{IH}$ or	I <sub>OH</sub> = -8 mA	2.3	1.9	2.1	-	1.9	-	1.9	-	
	VIL	I <sub>OH</sub> = -12 mA	2.7	2.2	2.4	-	2.2	-	2.2	-	
		I <sub>OH</sub> = -16 mA	3	2.4	2.7	-	2.4	-	2.4	-	
		I <sub>OH</sub> = -24 mA	3	2.3	2.5	-	2.3	-	2.3	-	
		I <sub>OH</sub> = -32 mA	4.5	3.8	4	-	3.8	-	3.8	-	
V <sub>OL</sub>	Low-Level	I <sub>OL</sub> = 100 μA	1.65 to 5.5	-	-	0.1	-	0.1	-	0.1	V
	Output Voltage	I <sub>OL</sub> = 4 mA	1.65	_	0.08	0.24	-	0.24	-	0.24	
	$V_{IN} = V_{IH}$ or	I <sub>OL</sub> = 8 mA	2.3	-	0.2	0.3	-	0.3	-	0.3	
	V <sub>IL</sub>	I <sub>OL</sub> = 12 mA	2.7	-	0.22	0.4	-	0.4	-	0.4	
		I <sub>OL</sub> = 16 mA	3	_	0.28	0.4	-	0.4	_	0.4	
		I <sub>OL</sub> = 24 mA	3	-	0.38	0.55	-	0.55	-	0.55	1
		I <sub>OL</sub> = 32 mA	4.5	_	0.42	0.55	-	0.55	-	0.55	
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	_	±1.0	μA
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	-	10	-	10	μA
I <sub>CC</sub>	Quiescent Supply Current	V <sub>IN</sub> = 5.5 V or GND	5.5	_	-	1	-	10	-	10	μΑ

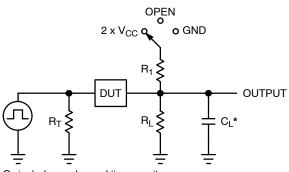
#### AC ELECTRICAL CHARACTERISTICS

				Г	G <sub>A</sub> = 25°C	;	–40°C ≤ 1	Γ <sub>A</sub> ≤ 85°C	–55°C ≤ T	<sub>A</sub> ≤ 125°C	
Symbol	Parameter	Condition	V <sub>CC</sub> (V)	Min	Тур	Max	Min	Max	Min	Max	Unit
tPHL Delay,	Propagation Delay, A to Y (Figures 3 and 4)	$RL = 1 M\Omega$ , CL = 15 pF	1.65 to 1.95	-	7.1	13	-	14.5	-	15.5	ns
	(Figures 3 and 4)	(Figures 3 and 4) $RL = 1 M\Omega$ , CL = 15 pF	2.3 to 2.7	-	4.3	7.4	-	8.1	-	9.1	
			GL = 15 pF	3.0 to 3.6	-	3.3	5	-	5.5	-	6.5
			4.5 to 5.5	-	2.7	4.1	-	4.5	-	5.5	
		$RL = 500 \Omega$ ,	3.0 to 3.6	-	4	6	-	6.6	-	7.6	
		CL = 50 pF	4.5 to 5.5	_	3.2	4.9	-	5.4	-	6.4	

#### **CAPACITIVE CHARACTERISTICS**

Symbol	Parameter	Condition	Typical	Unit
C <sub>IN</sub>	Input Capacitance	$V_{CC}$ = 5.5 V, $V_{I}$ = 0 V or $V_{CC}$	2.5	pF
C <sub>OUT</sub>	Output Capacitance	$V_{CC}$ = 5.5 V, $V_{I}$ = 0 V or $V_{CC}$	4.0	pF
C <sub>PD</sub>	Power Dissipation Capacitance (Note 5)	10 MHz, $V_{CC}$ = 3.3 V, $V_{IN}$ = 0 V or $V_{CC}$ 10 MHz, $V_{CC}$ = 5.0 V, $V_{IN}$ = 0 V or $V_{CC}$	11 12.5	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:  $I_{CC(OPR)} = C_{PD} \cdot V_{CC} \cdot f_{in}$ )  $I_{CC}$ .  $C_{PD}$  is used to determine the no–load dynamic power consumption;  $P_D = C_{PD} \cdot V_{CC}^2 \cdot f_{in}$ )  $I_{CC} \cdot V_{CC}$ .

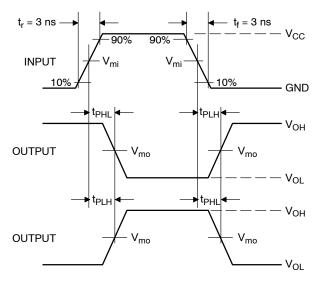


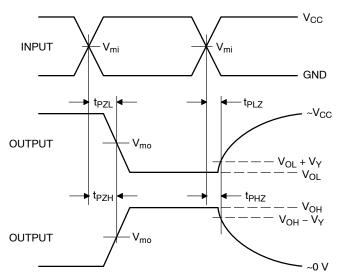
	Test	Switch Position	C <sub>L</sub> , pF	$R_L, \Omega$	$R_1, \Omega$		
	t <sub>PLH</sub> / t <sub>PHL</sub>	Open	See AC Characteristics Table				
	$t_{PLZ}$ / $t_{PZL}$	$2 \times V_{CC}$	-	-	-		
			See AC Characteristics Table				
ĺ	t <sub>PHZ</sub> / t <sub>PZH</sub>	GND	-	-	-		
			See AC Characteristics Table				

X = Don't Care

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

#### Figure 3. Test Circuit





#### Figure 4. Switching Waveforms

		V		
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

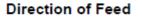
#### **ORDERING INFORMATION**

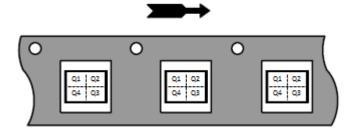
Device	Package	Specific Device Code	Pin1 Orientation (See below)	Shipping <sup>†</sup>
NL27WZ14DFT2G	SC-88	MA	Q4	3000 / Tape & Reel
NL27WZ14DFT4G	SC-88	MA	Q4	10000 / Tape & Reel
NLV27WZ14DFT2G*	SC-88	MA	Q4	3000 / Tape & Reel
NL27WZ14DTT1G	TSOP-6	MA	Q4	3000 / Tape & Reel
NL27WZ14DBVT1G	SC-74	MA	Q4	3000 / Tape & Reel
NL27WZ14MU1TCG	UDFN6, 1.45 x 1.0, 0.5P	P (Rotated 90° CW)	Q4	3000 / Tape & Reel
NL27WZ14MU3TCG	UDFN6, 1.0 x 1.0, 0.35P	3 (Rotated 90° 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. \*NLV Prefix 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

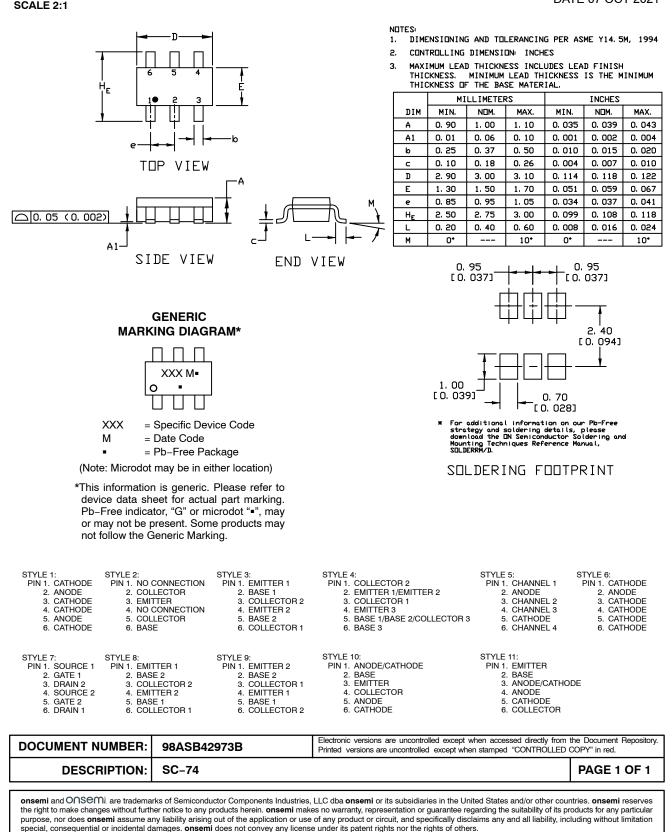




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SC-74 CASE 318F ISSUE P

DATE 07 OCT 2021







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0.043

0.004





- XXX = Specific Device Code

(Note: Microdot may be in either location)

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



DIMENSIONS: MILLIMETERS

\*For additional information on our Pb-Free strategy and soldering

details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

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#### DATE 11 DEC 2012

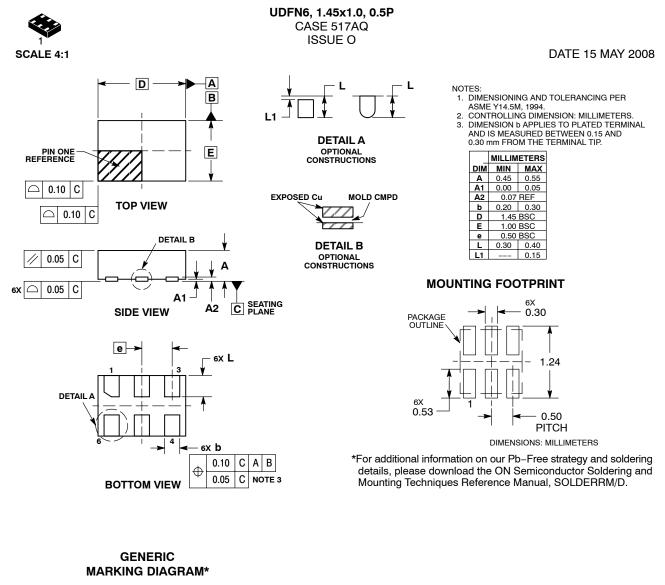
STYLE 1: PIN 1. EMITTER 2 2. BASE 2 3. COLLECTOR 1 4. EMITTER 1 5. BASE 1 6. COLLECTOR 2	STYLE 2: CANCELLED	STYLE 3: CANCELLED	STYLE 4: PIN 1. CATHODE 2. CATHODE 3. COLLECTOR 4. EMITTER 5. BASE 6. ANODE	STYLE 5: PIN 1. ANODE 2. ANODE 3. COLLECTOR 4. EMITTER 5. BASE 6. CATHODE	STYLE 6: PIN 1. ANODE 2 2. N/C 3. CATHODE 1 4. ANODE 1 5. N/C 6. CATHODE 2
STYLE 7: PIN 1. SOURCE 2 2. DRAIN 2 3. GATE 1 4. SOURCE 1 5. DRAIN 1 6. GATE 2	STYLE 8: CANCELLED	STYLE 9: PIN 1. EMITTER 2 2. EMITTER 1 3. COLLECTOR 1 4. BASE 1 5. BASE 2 6. COLLECTOR 2	STYLE 10: PIN 1. SOURCE 2 2. SOURCE 1 3. GATE 1 4. DRAIN 1 5. DRAIN 2 6. GATE 2	STYLE 11: PIN 1. CATHODE 2 2. CATHODE 2 3. ANODE 1 4. CATHODE 1 5. CATHODE 1 6. ANODE 2	STYLE 12: PIN 1. ANODE 2 2. ANODE 2 3. CATHODE 1 4. ANODE 1 5. ANODE 1 6. CATHODE 2
STYLE 13:	STYLE 14:	STYLE 15:	STYLE 16:	STYLE 17:	STYLE 18:
PIN 1. ANODE	PIN 1. VREF	PIN 1. ANODE 1	PIN 1. BASE 1	PIN 1. BASE 1	PIN 1. VIN1
2. N/C	2. GND	2. ANODE 2	2. EMITTER 2	2. EMITTER 1	2. VCC
3. COLLECTOR	3. GND	3. ANODE 3	3. COLLECTOR 2	3. COLLECTOR 2	3. VOUT2
4. EMITTER	4. IOUT	4. CATHODE 3	4. BASE 2	4. BASE 2	4. VIN2
5. BASE	5. VEN	5. CATHODE 2	5. EMITTER 1	5. EMITTER 2	5. GND
6. CATHODE	6. VCC	6. CATHODE 1	6. COLLECTOR 1	6. COLLECTOR 1	6. VOUT1
STYLE 19:	STYLE 20:	STYLE 21:	STYLE 22:	STYLE 23:	STYLE 24:
PIN 1. I OUT	PIN 1. COLLECTOR	PIN 1. ANODE 1	PIN 1. D1 (i)	PIN 1. Vn	PIN 1. CATHODE
2. GND	2. COLLECTOR	2. N/C	2. GND	2. CH1	2. ANODE
3. GND	3. BASE	3. ANODE 2	3. D2 (i)	3. Vp	3. CATHODE
4. V CC	4. EMITTER	4. CATHODE 2	4. D2 (c)	4. N/C	4. CATHODE
5. V EN	5. COLLECTOR	5. N/C	5. VBUS	5. CH2	5. CATHODE
6. V REF	6. COLLECTOR	6. CATHODE 1	6. D1 (c)	6. N/C	6. CATHODE
STYLE 25:	STYLE 26:	STYLE 27:	STYLE 28:	STYLE 29:	STYLE 30:
PIN 1. BASE 1	PIN 1. SOURCE 1	PIN 1. BASE 2	PIN 1. DRAIN	PIN 1. ANODE	PIN 1. SOURCE 1
2. CATHODE	2. GATE 1	2. BASE 1	2. DRAIN	2. ANODE	2. DRAIN 2
3. COLLECTOR 2	3. DRAIN 2	3. COLLECTOR 1	3. GATE	3. COLLECTOR	3. DRAIN 2
4. BASE 2	4. SOURCE 2	4. EMITTER 1	4. SOURCE	4. EMITTER	4. SOURCE 2
5. EMITTER	5. GATE 2	5. EMITTER 2	5. DRAIN	5. BASE/ANODE	5. GATE 1
6. COLLECTOR 1	6. DRAIN 1	6. COLLECTOR 2	6. DRAIN	6. CATHODE	6. DRAIN 1

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.

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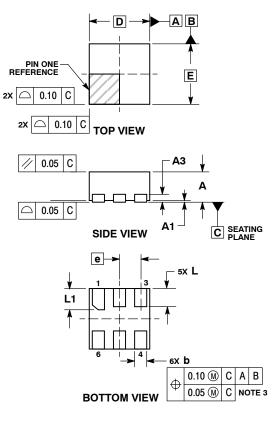
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- M = Date Code
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# DUSem



SCALE 4:1



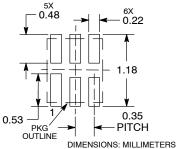
UDFN6, 1x1, 0.35P CASE 517BX **ISSUE O** 

#### 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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