onsemi

Single Schmitt-Trigger Inverter

MC74VHC1G14, MC74VHC1GT14

The MC74VHC1G14 / MC74VHC1GT14 is a single Schmitt-Trigger Inverter in tiny footprint packages. The MC74VHC1G14 has CMOS-level input thresholds while the MC74VHC1GT14 has TTL-level input thresholds.

The internal circuit is composed of three stages, including a buffered output which provides high noise immunity and stable output.

The input structures provide protection when voltages up to 5.5 V are applied, regardless of the supply voltage. This allows the device to be used to interface 5 V circuits to 3 V circuits. The output structures also provide protection when $V_{CC} = 0$ V and when the output voltage exceeds V_{CC} . These input and output structures help prevent device destruction caused by supply voltage – input/output voltage mismatch, battery backup, hot insertion, etc.

Features

- Designed for 2.0 V to 5.5 V V_{CC} Operation
- 4.0 ns t_{PD} at 5 V (typ)
- Inputs/Outputs Over-Voltage Tolerant up to 5.5 V
- I_{OFF} Supports Partial Power Down Protection
- Source/Sink 8 mA at 3.0 V
- Available in SC-88A, SC-74A, TSOP-5, SOT-953 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

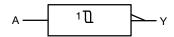
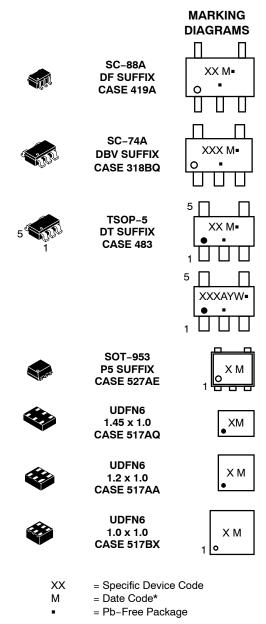


Figure 1. Logic Symbol

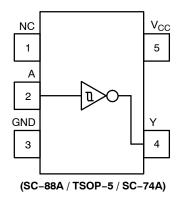


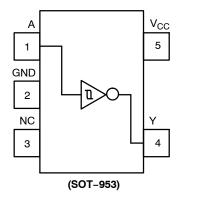
(Note: Microdot may be in either location)

*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 7 of this data sheet.





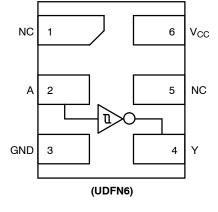


Figure 2. Pinout (Top View)

PIN ASSIGNMENT

(SC-88A / TSOP-5 / SC-74A)

Pin	Function
1	NC
2	A
3	GND
4	Y
5	V _{CC}

PIN ASSIGNMENT (SOT-953)

Pin	Function
1	А
2	GND
3	NC
4	Y
5	V _{CC}

PIN ASSIGNMENT (UDFN)

Pin	Function
1	NC
2	A
3	GND
4	Y
5	NC
6	V _{CC}

FUNCTION TABLE

A Input	Y Output
L	Н
Н	L

MAXIMUM RATINGS

Symbol	Charact	Value	Unit	
V _{CC}	DC Supply Voltage	TSOP-5, SC-88A (NLV) SC-74A, SC-88A, UDFN6, SOT-953	-0.5 to +7.0 -0.5 to +6.5	V
V _{IN}	DC Input Voltage	TSOP-5, SC-88A (NLV) SC-74A, SC-88A, UDFN6, SOT-953	-0.5 to +7.0 -0.5 to +6.5	V
V _{OUT}	DC Output Voltage TSOP-5, SC-88A (NLV)	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 +7.0 -0.5 to +7.0	V
	DC Output Voltage Active-Mode (High or Low State) SC-74A, SC-88A, UDFN6, SOT-953 Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V)		-0.5 to V _{CC} + 0.5 -0.5 to +6.5 -0.5 to +6.5	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	±25	mA	
I _{CC} or I _{GND}	DC Supply Current per Supply Pin or Gr	±50	mA	
T _{STG}	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
θ_{JA}	Thermal Resistance (Note 2)	SC-88A SC-74A SOT-953 UDFN6	377 320 254 154	°C/W
P _D	Power Dissipation in Still Air	SC-88A SC-74A SOT-953 UDFN6	332 390 491 812	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.

Applicable to devices with outputs that may be finated.
 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	Cł	Min	Max	Unit	
V _{CC}	Positive DC Supply Voltage		2.0	5.5	V
V _{IN}	DC Input Voltage		0	5.5	V
V _{OUT}	DC Output Voltage	TSOP-5, SC-88A (NLV)	0	V _{CC}	V
	DC Output Voltage	SC-74A, SC-88A, UDFN6, SOT-953 Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V)	0 0 0	V _{CC} 5.5 5.5	
T _A	Operating Temperature Range		-55	+125	°C
t _r , t _f	Input Rise and Fall Time	TSOP-5, SC-88A (NLV) V _{CC} = 3.0 V to 3.6 V V _{CC} = 4.5 V to 5.5 V	0 0	No Limit No Limit	ns/V
	Input Rise and Fall Time	SC-74A, SC-88A, UDFN6, SOT-953 $V_{CC} = 2.0 V$ $V_{CC} = 2.3 V to 2.7 V$ $V_{CC} = 3.0 V to 3.6 V$ $V_{CC} = 4.5 V to 5.5 V$	0 0 0 0	No Limit No Limit No Limit No Limit	

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 (MC74VHC1G14)

		Test	v _{cc}	٦	T _A = 25°C		-40°C ≤ 1	Γ _A ≤ 85°C	–55°C ≤ T	A ≤ 125°C	
Symbol	Parameter	Conditions	(V)	Min	Тур	Max	Min	Max	Min	Max	Unit
V _{T+}	Positive Threshold Voltage		3.0 4.5 5.5	- - -	2.0 3.0 3.6	2.20 3.15 3.85	- - -	2.20 3.15 3.85	- - -	2.20 3.15 3.85	V
V _{T-}	Negative Threshold Voltage		3.0 4.5 5.5	0.9 1.35 1.65	1.5 2.3 2.9		0.9 1.35 1.65	- - -	0.9 1.35 1.65	- - -	V
V _H	Hysteresis Voltage		3.0 4.5 5.5	0.30 0.40 0.50	0.57 0.67 0.74	1.20 1.40 1.60	0.30 0.40 0.50	1.20 1.40 1.60	0.30 0.40 0.50	1.20 1.40 1.60	V
V _{OH}	High-Level Output Voltage	$\begin{array}{l} V_{IN} = V_{IH} \text{ or } V_{IL} \\ I_{OH} = -50 \ \mu\text{A} \\ I_{OH} = -50 \ \mu\text{A} \\ I_{OH} = -50 \ \mu\text{A} \\ I_{OH} = -4 \ m\text{A} \\ I_{OH} = -8 \ m\text{A} \end{array}$	2.0 3.0 4.5 3.0 4.5	1.9 2.9 4.4 2.58 3.94	2.0 3.0 4.5 -		1.9 2.9 4.4 2.48 3.80	- - - -	1.9 2.9 4.4 2.34 3.66	- - - -	V
V _{OL}	Low-Level Output Voltage		2.0 3.0 4.5 3.0 4.5	- - - -	0.0 0.0 0.0 - -	0.1 0.1 0.36 0.36	- - - -	0.1 0.1 0.44 0.44	- - - - -	0.1 0.1 0.52 0.52	V
I _{IN}	Input Leakage Current	V _{IN} = 5.5 V or GND	2.0 to 5.5	-	-	±0.1	-	±1.0	-	±1.0	μA
I _{OFF}	Power Off Leakage Current	V_{IN} = 5.5 V or V_{OUT} = 5.5 V	0	-	-	1.0	-	10	-	10	μΑ
I _{CC}	Quiescent Supply Current	V _{IN} = V _{CC} or GND	5.5	-	Ι	1.0	-	20	-	40	μΑ

		Test	v _{cc}	٦	「 _A = 25°	С	-40°C ≤ 1	Γ _A ≤ 85°C	-55°C ≤ T	A ≤ 125°C	
Symbol	Parameter	Conditions	(V)	Min	Тур	Max	Min	Max	Min	Max	Unit
V _{T+}	Positive Threshold Voltage		3.0 4.5 5.5	- - -	1.40 1.74 1.94	1.60 2.00 2.10	- - -	1.6 2.0 2.1	- - -	1.6 2.0 2.1	V
V _{T-}	Negative Threshold Voltage		3.0 4.5 5.5	0.35 0.5 0.6	0.76 1.01 1.13	- - -	0.35 0.5 0.6	- - -	0.35 0.5 0.6	- - -	V
V _H	Hysteresis Voltage		3.0 4.5 5.5	0.30 0.40 0.50	0.64 0.73 0.81	1.20 1.40 1.60	0.30 0.40 0.50	1.20 1.40 1.60	0.30 0.40 0.50	1.20 1.40 1.60	V
V _{OH}	High-Level Output Voltage	$\begin{array}{l} V_{IN} = V_{IH} \text{ or } V_{IL} \\ I_{OH} = -50 \ \mu\text{A} \\ I_{OH} = -50 \ \mu\text{A} \\ I_{OH} = -50 \ \mu\text{A} \\ I_{OH} = -4 \ m\text{A} \\ I_{OH} = -8 \ m\text{A} \end{array}$	2.0 3.0 4.5 3.0 4.5	1.9 2.9 4.4 2.58 3.94	2.0 3.0 4.5 –	- - - -	1.9 2.9 4.4 2.48 3.80	- - - -	1.9 2.9 4.4 2.34 3.66	- - - -	V
V _{OL}	Low-Level Output Voltage		2.0 3.0 4.5 3.0 4.5	- - - -	0.0 0.0 0.0 - -	0.1 0.1 0.36 0.36		0.1 0.1 0.44 0.44	- - - -	0.1 0.1 0.52 0.52	V
I _{IN}	Input Leakage Current	V _{IN} = 5.5 V or GND	2.0 to 5.5	-	-	±0.1	_	±1.0	_	±1.0	μA
I _{OFF}	Power Off Leakage Current	V_{IN} = 5.5 V or V_{OUT} = 5.5 V	0	-	-	1.0	-	10	_	10	μΑ
I _{CC}	Quiescent Supply Current	V _{IN} = V _{CC} or GND	5.5	-	-	1.0	-	20	_	40	μΑ
I _{CCT}	Increase in Quiescent Supply Current per Input Pin	One Input: V _{IN} = 3.4 V; Other Input at V _{CC} or GND	5.5	-	-	1.35	_	1.5	_	1.65	mA

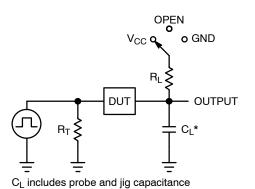
DC ELECTRICAL CHARACTERISTICS (MC74VHC1GT14)

AC ELECTRICAL CHARACTERISTICS

				Ţ	A = 25°	С	-40°C ≤ -	T _A ≤ 85°C	–55°C ≤ T	A ≤ 125°C	
Symbol	Parameter	Conditions	V _{CC} (V)	Min	Тур	Max	Min	Max	Min	Max	Unit
t _{PLH} ,	Propagation Delay,	C _L = 15 pF	3.0 to 3.6	-	7.0	12.8	-	15.0	-	17.0	ns
tPHL	t _{PHL} A to Y (Figures 3 and 4)	C _L = 50 pF		-	8.5	16.3	-	18.5	-	20.5	1
		C _L = 15 pF	4.5 to 5.5	-	4.0	8.6	_	10.0	-	11.5	1
		C _L = 50 pF		-	5.5	10.6	-	12.0	-	13.5	1
C _{IN}	Input Capacitance			-	4.0	10	_	10	-	10	pF
C _{OUT}	Output Capacitance	Output in High Impedance State		-	6.0	-	_	_	_	_	pF

		Typical @ 25°C, V_{CC} = 5.0 V	
C _{PD}	Power Dissipation Capacitance (Note 5)	8.0	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; $P_D = C_{PD} \bullet V_{CC}^2 \bullet f_{in} + I_{CC} \bullet V_{CC}$.

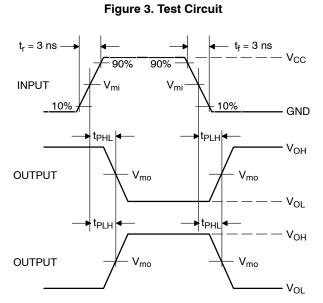


 R_T is Z_{OUT} of pulse generator (typically 50 Ω)

f = 1 MHz

Test	Switch Position	С _L , pF	R_L, Ω
t _{PLH} / t _{PHL}	Open	See AC Characteristics Table	Х
t _{PLZ} / t _{PZL}	V _{CC}		1 k
t _{PHZ} / t _{PZH}	GND		1 k

X = Don't Care



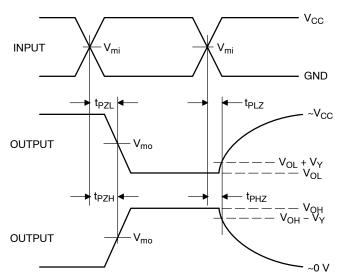


Figure 4. Switching Waveforms

		V _m o		
V _{CC} , V	V _{mi} , V	t _{PLH} , t _{PHL}	t _{PZL} , t _{PLZ} , t _{PZH} , t _{PHZ}	V _Y , V
3.0 to 3.6	V _{CC} /2	V _{CC} /2	V _{CC} /2	0.3
4.5 to 5.5	V _{CC} /2	V _{CC} /2	V _{CC} /2	0.3

ORDERING INFORMATION

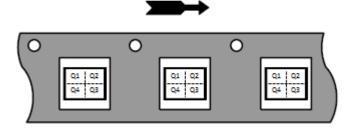
Device	Packages	Specific Device Code	Pin 1 Orientation (See below)	Shipping [†]
MC74VHC1G14DFT1G	SC-88A	VA	Q2	3000 / Tape & Reel
MC74VHC1G14DFT2G	SC-88A	VA	Q4	3000 / Tape & Reel
NLVVHC1G14DFT1G*	SC-88A	VA	Q2	3000 / Tape & Reel
NLVVHC1G14DFT2G*	SC-88A	VA	Q4	3000 / Tape & Reel
M74VHC1GT14DFT1G	SC-88A	VC	Q2	3000 / Tape & Reel
M74VHC1GT14DFT2G	SC-88A	VC	Q4	3000 / Tape & Reel
NLVVHC1GT14DFT1G*	SC-88A	VC	Q2	3000 / Tape & Reel
NLVVHC1GT14DFT2G*	SC-88A	VC	Q4	3000 / Tape & Reel
MC74VHC1G14DBVT1G	SC-74A	VA	Q4	3000 / Tape & Reel
MC74VHC1GT14DBVT1G	SC-74A	VC	Q4	3000 / Tape & Reel
MC74VHC1G14DTT1G	TSOP-5	VA	Q4	3000 / Tape & Reel
NLVVHC1G14DTT1G*	TSOP-5	VA	Q4	3000 / Tape & Reel
M74VHC1GT14DTT1G	TSOP-5	VC	Q4	3000 / Tape & Reel
MC74VHC1G14P5T5G	SOT-953	R	Q2	8000 / Tape & Reel
MC74VHC1GT14P5T5G (In Development)	SOT-953	TBD	Q2	8000 / Tape & Reel
MC74VHC1G14MU1TCG (In Development)	UDFN6, 1.45 x 1.0, 0.5P	TBD	Q4	3000 / Tape & Reel
MC74VHC1GT14MU1TCG	UDFN6, 1.45 x 1.0, 0.5P	Q	Q4	3000 / Tape & Reel
MC74VHC1G14MU2TCG (In Development)	UDFN6, 1.2 x 1.0, 0.4P	Р	Q4	3000 / Tape & Reel
MC74VHC1GT14MU2TCG	UDFN6, 1.2 x 1.0, 0.4P	М	Q4	3000 / Tape & Reel
MC74VHC1G14MU3TCG (In Development)	UDFN6, 1.0 x 1.0, 0.35	TBD	Q4	3000 / Tape & Reel
MC74VHC1GT14MU3TCG	UDFN6, 1.0 x 1.0, 0.35	М	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

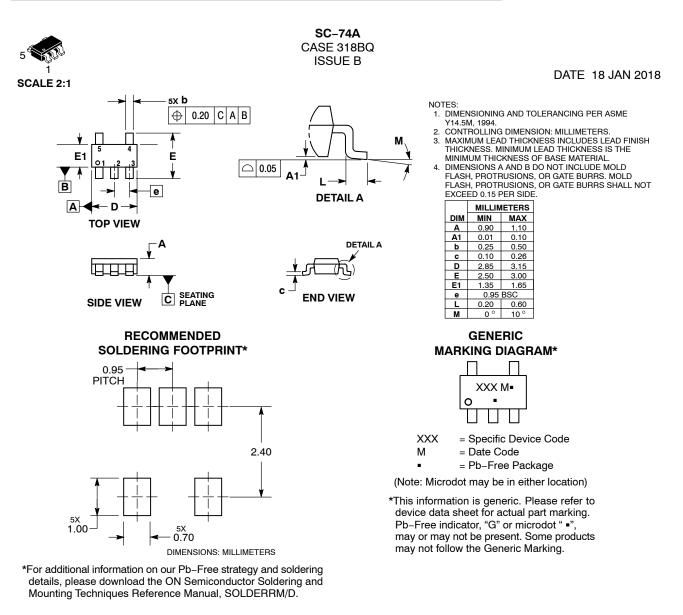
Capable.

Pin 1 Orientation in Tape and Reel

Direction of Feed







DOCUMENT NUMBER:	98AON66279G	Electronic versions are uncontrolled except when accessed directly from the Document Repository. Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.		
DESCRIPTION:	I: SC-74A PAG		PAGE 1 OF 1	
ON Semiconductor reserves the right the suitability of its products for any pa	to make changes without further notice to an articular purpose, nor does ON Semiconducto	stries, LLC dba ON Semiconductor or its subsidiaries in the United States y products herein. ON Semiconductor makes no warranty, representation r assume any liability arising out of the application or use of any product or incidental damages. ON Semiconductor does not convey any license under	or guarantee regarding circuit, and specifically	





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-35	T–353) PAGE 1 OF		

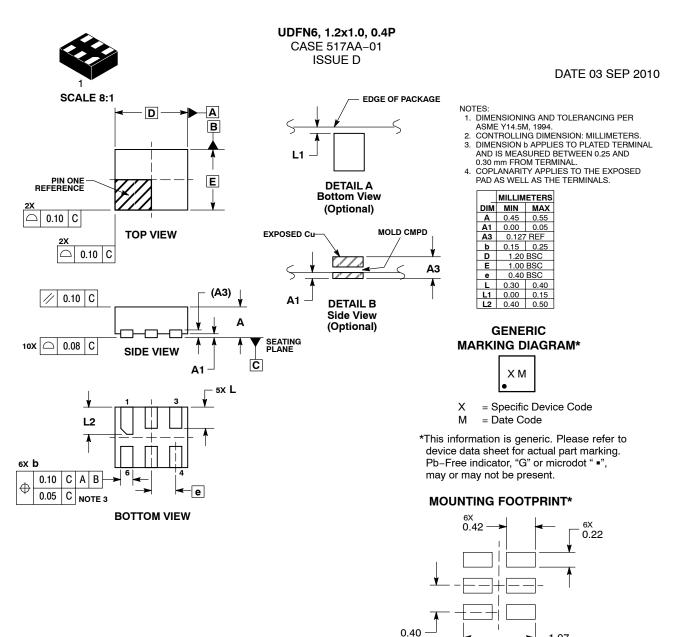
ON Semiconductor and ()) are trademarks of Semiconductor Components Industries, LLC dba ON Semiconductor or its subsidiaries in the United States and/or other countries. ON Semiconductor reserves the right to make changes without further notice to any products herein. ON Semiconductor makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does ON Semiconductor 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. ON Semiconductor does not convey any license under its patent rights or the rights of others.





DOCUMENT NUMBER:	98ARB18753C	IB753C Electronic versions are uncontrolled except when accessed directly from the Document Repository. Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.		
DESCRIPTION:	TSOP-5 PAGE 1 C		PAGE 1 OF 1	
ON Semiconductor reserves the right the suitability of its products for any pa	to make changes without further notice to an articular purpose, nor does ON Semiconducto	stries, LLC dba ON Semiconductor or its subsidiaries in the United States y products herein. ON Semiconductor makes no warranty, representation r assume any liability arising out of the application or use of any product or acidental damages. ON Semiconductor does not convey any license under	or guarantee regarding circuit, and specifically	





DIMENSIONS: MILLIMETERS

1.07

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

PITCH

DOCUMENT NUMBER:	98AON22068D	N22068D Electronic versions are uncontrolled except when accessed directly from the Document Repository. Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.			
DESCRIPTION:	6 PIN UDFN, 1.2X1.0, 0.4P PAG		PAGE 1 OF 1		
ON Semiconductor and I are trademarks of Semiconductor Components Industries, LLC dba ON Semiconductor or its subsidiaries in the United States and/or other countries. ON Semiconductor reserves the right to make changes without further notice to any products herein. ON Semiconductor makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does ON Semiconductor 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. ON Semiconductor does not convey any license under its patent rights nor the rights of others.					

onsemi





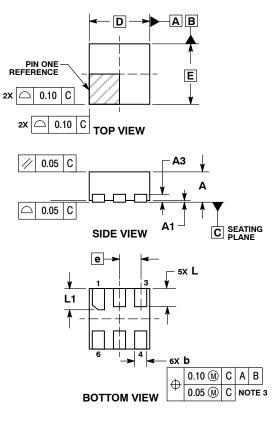
- X = Specific Device Code
- M = Date Code
- *This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot " •", may or may not be present.

DOCUMENT NUMBER:	98AON30313E Electronic versions are uncontrolled except when accessed directly from the Document Repository. Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.			
DESCRIPTION:	UDFN6, 1.45x1.0, 0.5P PAGE 1		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 damages. onsemi does not convey any license under its pattent rights nor the rights of others.				

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	0.00 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.

DOCUMENT NUMBER:	98AON56787E Electronic versions are uncontrolled except when accessed directly from the Document Repository Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.			
DESCRIPTION:	UDFN6, 1x1, 0.35P PAGE 1		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 damages. onsemi does not convey any license under its pattent rights nor the rights of others.				

SCALE 4:1

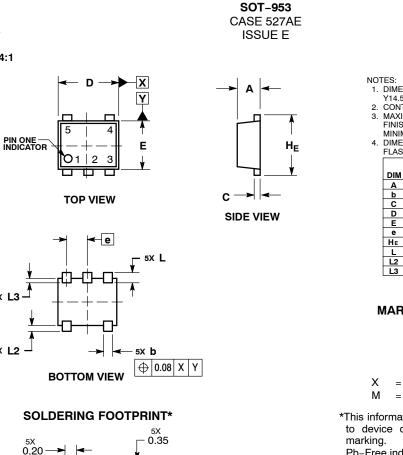
5X L3

5X L2

PACKAGE OUTLINE

0.35 PITCH





DATE 02 AUG 2011

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

	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
E	0.75	0.80	0.85
е		0.35 BS	С
ΗE	0.95	1.00	1.05
L	0.175 REF		
L2	0.05	0.10	0.15
L3			0.15

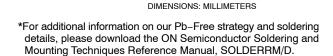
GENERIC **MARKING DIAGRAM***

= Specific Device Code

= Month Code

*This information is generic. Please refer to device data sheet for actual part

Pb-Free indicator, "G" or microdot " .", may or may not be present.



L

1.20

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:	N: SOT-953 PA		PAGE 1 OF 1	
ON Semiconductor reserves the right the suitability of its products for any pa	to make changes without further notice to an articular purpose, nor does ON Semiconducto	stries, LLC dba ON Semiconductor or its subsidiaries in the United States y products herein. ON Semiconductor makes no warranty, representation r assume any liability arising out of the application or use of any product or cidental damages. ON Semiconductor does not convey any license under	or guarantee regarding r circuit, and specifically	

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 calcular 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.

PUBLICATION ORDERING INFORMATION

LITERATURE FULFILLMENT:

TECHNICAL SUPPORT

onsemi Website: www.onsemi.com

Email Requests to: orderlit@onsemi.com

North American Technical Support: Voice Mail: 1 800-282-9855 Toll Free USA/Canada Phone: 011 421 33 790 2910

Europe, Middle East and Africa Technical Support: Phone: 00421 33 790 2910 For additional information, please contact your local Sales Representative

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Logic Gates category:

Click to view products by ON Semiconductor manufacturer:

Other Similar products are found below :

74HC85N NLU1G32AMUTCG CD4068BE NL17SG32P5T5G NL17SG86DFT2G NLV14001UBDR2G NLX1G11AMUTCG NLX1G97MUTCG 74LS38 74LVC32ADTR2G MC74HCT20ADTR2G NLV17SZ00DFT2G NLV17SZ02DFT2G NLV74HC02ADR2G 74HC32S14-13 74LS133 74LVC1G32Z-7 M38510/30402BDA 74LVC1G86Z-7 74LVC2G08RA3-7 NLV74HC08ADTR2G NLV74HC14ADR2G NLV74HC20ADR2G NLX2G86MUTCG 5962-8973601DA 74LVC2G02HD4-7 NLU1G00AMUTCG 74LVC2G32RA3-7 74LVC2G00HD4-7 NL17SG02P5T5G 74LVC2G00HK3-7 74LVC2G86HK3-7 NL17SG08DFT2G NLX1G99DMUTWG NLVVHC1G00DFT2G NLVHC1G08DFT2G NLV7SZ57DFT2G NLV74VHC04DTR2G NLV27WZ86USG NLV27WZ00USG NLU1G86CMUTCG NLU1G08CMUTCG NL17SZ32P5T5G NL17SZ00P5T5G NL17SH02P5T5G 74AUP2G00RA3-7 NLV74HC02ADTR2G NLX1G332CMUTCG NL17SG86P5T5G NL17SZ05P5T5G