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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. Some 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
- IOFF 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
- -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/BFR Free and are RoHS Compliant

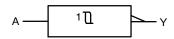


Figure 1. Logic Symbol

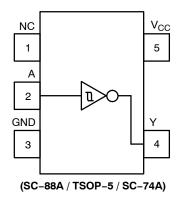
		MARKING DIAGRAMS
	SC-88A DF SUFFIX CASE 419A	
S.	SC-74A DBV SUFFIX CASE 318BQ	
5	TSOP-5 DT SUFFIX CASE 483	5
	SOT-953 P5 SUFFIX CASE 527AE	
	UDFN6 1.45 x 1.0 CASE 517AQ	● ×W
Ŷ	UDFN6 1.2 x 1.0 CASE 517AA	× M
Ŷ	UDFN6 1.0 x 1.0 CASE 517BX	1 °
XX M	= Specific Device = Date Code* = Pb-Free Packa	age
(Note: Micr	odot mav be in eith	er location)

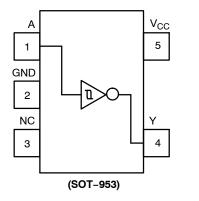
(Note: Microdot may be in either location)

*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.





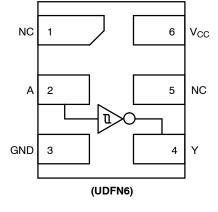


Figure 2. Pinout (Top View)

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	Character	Value	Unit	
V _{CC}	DC Supply Voltage	–0.5 to +6.5	V	
V _{IN}	DC Input Voltage		–0.5 to +6.5	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 +6.5 -0.5 to +6.5	V
I _{IK}	DC Input Diode Current	V _{IN} < GND	-20	mA
Ι _{ΟΚ}	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 Grou	nd Pin	±50	mA
T _{STG}	Storage Temperature Range		-65 to +150	°C
ΤL	Lead Temperature, 1 mm from Case for 10	secs	260	°C
ТJ	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
PD	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.

 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	Char	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	Active-Mode (High or Low State) Tri-State Mode (Note 5) Power-Down Mode (V _{CC} = 0 V)	0 0 0	V _{CC} 5.5 5.5	V
T _A	Operating Temperature Range		-55	+125	°C
t _r , t _f	Input Rise and Fall Time	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	No Limit No Limit No Limit No Limit	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.

5. Applicable to devices with outputs that may be tri-stated.

		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 Input Threshold Voltage		3.0 4.5 5.5	- - -	2.0 3.0 3.6	2.2 3.15 3.85	- -	2.2 3.15 3.85	- - -	2.2 3.15 3.85	V
V _{T-}	Negative Input 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	μΑ
I _{OFF}	Power Off Leakage Current	V _{IN} = 5.5 V or V _{OUT} = 5.5 V	0.0	-	-	1.0	_	10	-	10	μΑ
I _{CC}	Quiescent Supply Current	V _{IN} = V _{CC} or GND	5.5	-	-	1.0	_	20	-	40	μA

DC ELECTRICAL CHARACTERISTICS (MC74VHC1G14)

		Test	v _{cc}	T _A = 25°C			$-40^{\circ}C \le T_A \le 85^{\circ}C$		$-55^{\circ}C \le T_A \le 125^{\circ}C$		
Symbol	Parameter	Conditions	(V)	Min	Тур	Max	Min	Max	Min	Max	Unit
V _{T+}	Positive Input Threshold Voltage		3.0 4.5 5.5	- - -	1.4 1.74 1.94	1.6 2.0 2.1		1.6 2.0 2.1	- - -	1.6 2.0 2.1	V
V_{T-}	Negative Input 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 0.4 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	μΑ
I _{OFF}	Power Off Leakage Current	V _{IN} = 5.5 V or V _{OUT} = 5.5 V	0	-	-	1.0	-	10	-	10	μA
ICC	Quiescent Supply Current	V _{IN} = V _{CC} or GND	5.5	-	I	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

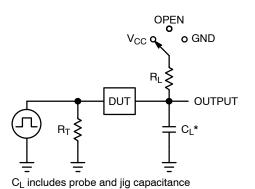
DC ELECTRICAL CHARACTERISTICS (MC74VHC1GT14)

AC ELECTRICAL CHARACTERISTICS

				Т	A = 25°	C	-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
t _{PHL}	A to Y (Figures 3 and 4)	C _L = 50 pF		-	8.5	16.3	_	18.5	-	20.5	
	C _L = 15 pF	4.5 to 5.5	-	4.0	8.6	_	10.0	-	11.5		
		C _L = 50 pF		-	5.5	10.6	_	12.0	-	13.5	
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 6)	8.0	pF

6. 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}.

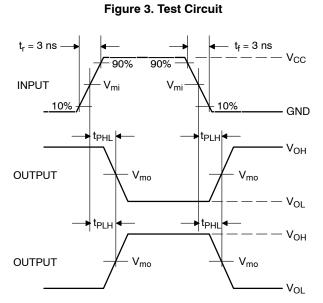


 R_T is Z_{OUT} of pulse generator (typically 50 Ω)

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



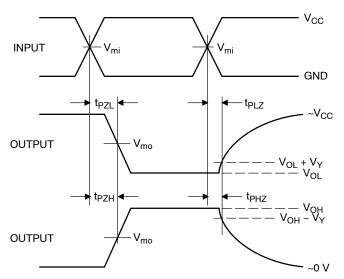


Figure 4. Switching Waveforms

		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

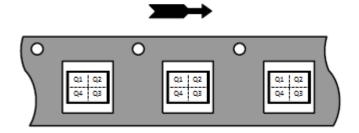
Device	Packages	Specific Device Code	Pin 1 Orientation (See below)	Shipping [†]
MC74VHC1G14DFT1G	SC-88A	VA	Q2	3000 / Tape & Reel
MC74VHC1G14DFT2G	SC-88A	VA	Q4	3000 / Tape & Reel
MC74VHC1G14DFT1G-Q* (Please contact onsemi)	SC-88A	VA	Q2	3000 / Tape & Reel
MC74VHC1G14DFT2G-Q* (Please contact onsemi)	SC-88A	VA	Q4	3000 / Tape & Reel
MC74VHC1GT14DFT1G (Please contact onsemi)	SC-88A	VC	Q2	3000 / Tape & Reel
MC74VHC1GT14DFT2G (Please contact onsemi)	SC-88A	VC	Q4	3000 / Tape & Reel
MC74VHC1GT14DFT1G-Q* (Please contact onsemi)	SC-88A	VC	Q2	3000 / Tape & Reel
MC74VHC1GT14DFT2G-Q* (Please contact onsemi)	SC-88A	VC	Q4	3000 / Tape & Reel
MC74VHC1G14DBVT1G	SC-74A	VA	Q4	3000 / Tape & Reel
MC74VHC1GT14DBVT1G	SC-74A	VC	Q4	3000 / Tape & Reel
MC7VHC1G14DTT1G-Q* (Please contact onsemi)	TSOP-5	VA	Q4	3000 / Tape & Reel
MC74VHC1G14P5T5G	SOT-953	R	Q2	8000 / Tape & Reel
MC74VHC1GT14P5T5G (Please contact onsemi)	SOT-953	TBD	Q2	8000 / Tape & Reel
MC74VHC1G14MU1TCG (Please contact onsemi)	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 (Please contact onsemi)	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 (Please contact onsemi)	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.

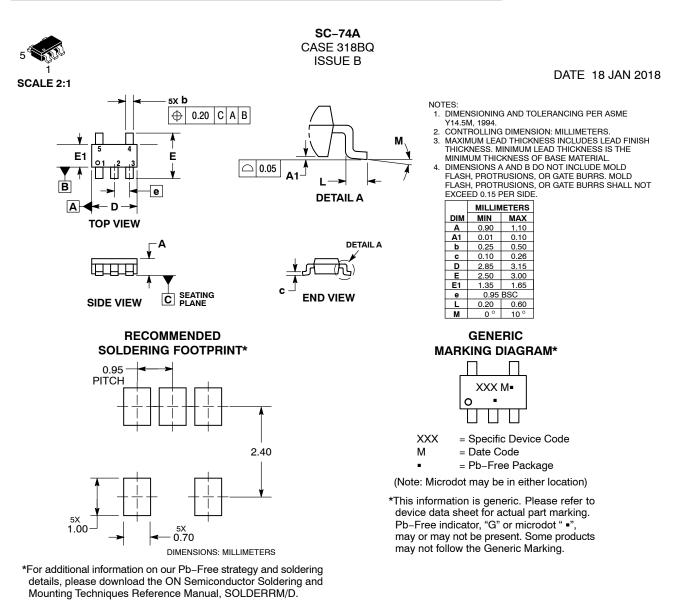
*-Q Suffix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q100 Qualified and PPAP Capable.

Pin 1 Orientation in Tape and Reel

Direction of Feed







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DESCRIPTION:	SC-74A PAGE 1 OF				
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SC-88A (SC-70-5/SOT-353) CASE 419A-02 ISSUE M

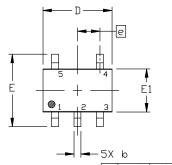
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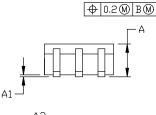
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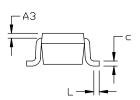
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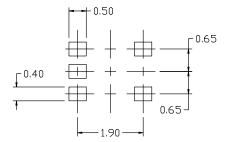
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DATE 11 APR 2023









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)

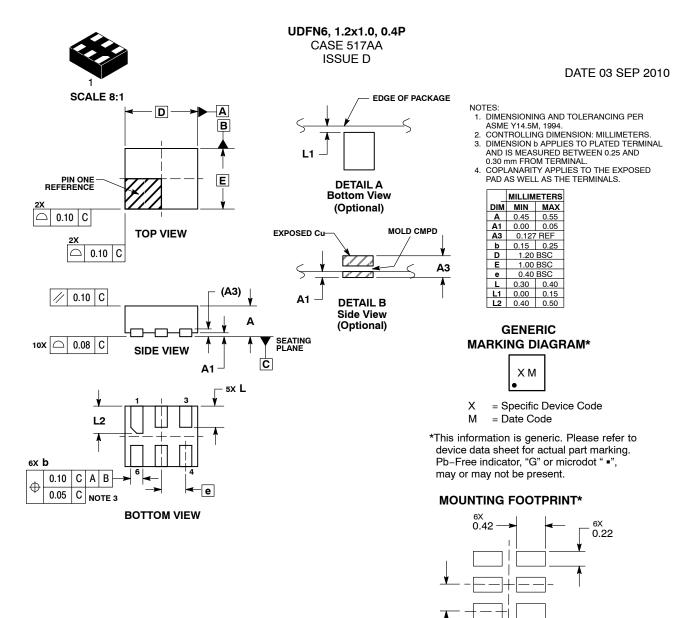
DOCUMENT NUMBER: 98ASB42984B Electronic versions are uncontrolled except when accessed directly from the Document Repository. Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red. DESCRIPTION: SC-88A (SC-70-5/SOT-353) PAGE 1 OF 1	PIN 1. EMITTER 2 2. BASE 2 3. EMITTER 1 4. COLLECTOR 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

ONSEM¹.



DIMENSIONS: MILLIMETERS

1.07

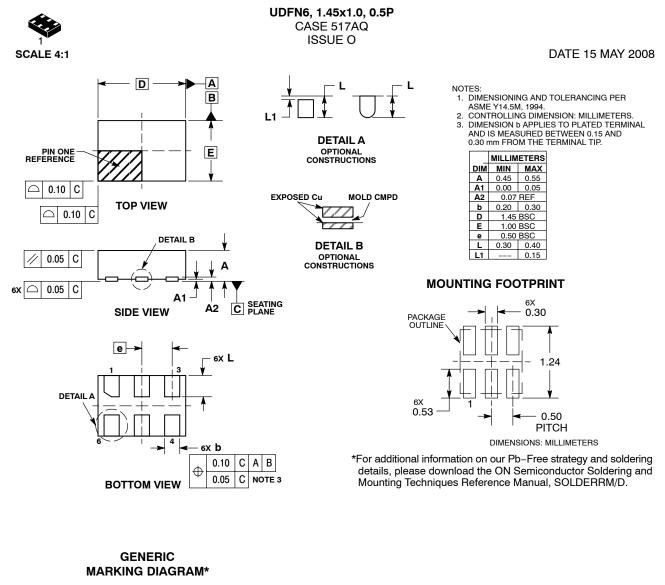
*For additional information on our Pb–Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

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PITCH

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DESCRIPTION:	6 PIN UDFN, 1.2X1.0, 0.4P PAGE 1		PAGE 1 OF 1		
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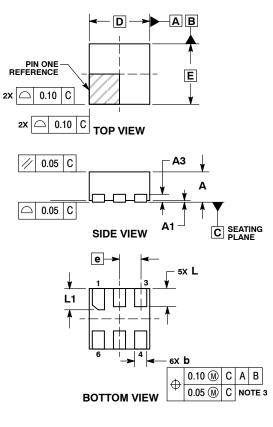
- X = Specific Device Code
- M = Date Code
- *This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot " •", may or may not be present.

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



SCALE 4:1



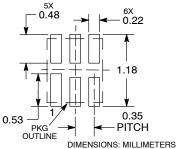
UDFN6, 1x1, 0.35P CASE 517BX **ISSUE O**

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					
	MILLIN	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.

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SCALE 4:1

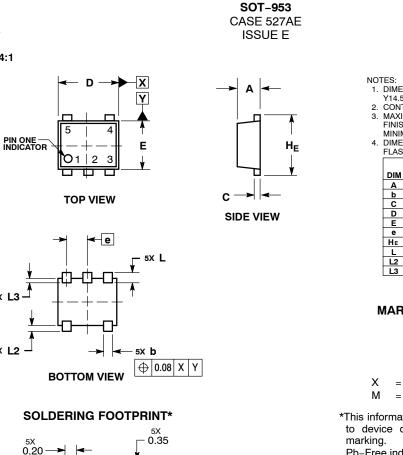
5X L3

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 BSC					
ΗE	0.95	1.00	1.05			
L	0.175 REF					
L2	0.05	0.10	0.15			
L3			0.15			

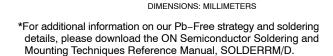
GENERIC **MARKING DIAGRAM***

= 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

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