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2-Input NAND Schmitt-Trigger

MC74VHC1G132, MC74VHC1GT132

The MC74VHC1G132 / MC74VHC1GT132 is a single 2-input NAND Schmitt Trigger in tiny footprint packages. The MC74VHC1G132 has CMOS-level input thresholds while the MC74VHC1GT132 has TTL-level input thresholds.

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
- 3.6 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-553, 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



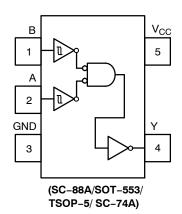
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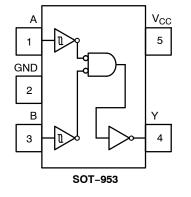
www.onsemi.com

		MARKING DIAGRAMS
	SC-88A DF SUFFIX CASE 419A	
	SC-74A DBV SUFFIX CASE 318BQ	XXX M• 0 •
5 TSOP-5 DT SUFFIX CASE 483	5 XX M• • • 1	5 XXXAYW• • • 1
CO DE DE	SOT-553 XV5 SUFFIX CASE 463B	XX M•
	SOT-953 P5 SUFFIX CASE 527AE	
	UDFN6 1.45 x 1.0 CASE 517AQ	● XM
Ŷ	UDFN6 1.0 x 1.0 CASE 517BX	1 o
XX M	= Specific Devic = Date Code* = Pb-Free Pack	
*Date Code	rodot may be in eith orientation and/or nding upon manufac	position may

ORDERING INFORMATION

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





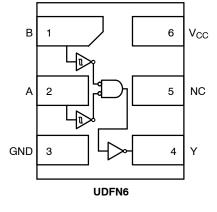


Figure 2. Pinout (Top View)

PIN ASSIGNMENT

(SC-88A/SOT-553/ TSOP-5/SC-74A)

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

PIN ASSIGNMENT (SOT-953)

Function
А
GND
В
Y
V _{CC}

PIN ASSIGNMENT (UDFN)

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

FUNCTION TABLE

Inp	out	Output
Α	В	Y
L	L	Н
L	н н	Н
Н	L	Н
Н	Н	L

MAXIMUM RATINGS

Symbol	Characteristics		Value	Unit
V _{CC}	DC Supply Voltage TSC SC-74A, SC-88A, UDFN6,	DP-5, SC-88A (NLV) SOT-553, SOT-953	-0.5 to +7.0 -0.5 to +6.5	V
V _{IN}	DC Input Voltage TSC SC-74A, SC-88A, UDFN6,	DP-5, SC-88A (NLV) SOT-553, SOT-953	-0.5 to +7.0 -0.5 to +6.5	V
V _{OUT}	TSOP-5, SC-88A (NLV) Tri	e (High or Low State) -State Mode (Note 1) wn Mode (V _{CC} = 0 V)	-0.5 to V _{CC} + 0.5 -0.5 to +7.0 -0.5 to +7.0	V
	SC-74A, SC-88A, UDFN6, SOT-553, SOT-953 Tri-	e (High or Low State) -State Mode (Note 1) wn 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
_{CC} or I _{GND}	DC Supply Current per Supply Pin or Ground Pin		±50	mA
T _{STG}	Storage Temperature Range		-65 to +150	°C
ΤL	Lead Temperature, 1 mm from Case for 10 secs		260	°C
Τ _J	Junction Temperature Under Bias		+150	°C
θ_{JA}	Thermal Resistance (Note 2)	SC-88A SC-74A SOT-553 SOT-953 UDFN6	377 320 324 254 154	°C/W
P _D	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 _R	Flammability Rating O:	kygen Index: 28 to 34	UL 94 V-0 @ 0.125 in	-
V _{ESD}	ESD Withstand Voltage (Note 3) C	Human Body Model harged 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.
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.
Tested to EIA/JESD78 Class II.

RECOMMENDED OPERATING CONDITIONS

Symbol		Characteristics	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-553, 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 Rar	ge	-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-553, 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 (MC74VHC1G132)

		Test	Vcc	٦	「 _A = 25°	С	-40°C ≤	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	$\begin{array}{l} V_{IN} = V_{IH} \text{ or } V_{IL} \\ I_{OH} = -50 \ \mu A \\ I_{OH} = -50 \ \mu A \\ I_{OH} = -50 \ \mu A \\ I_{OH} = -4 \ m A \\ I_{OH} = -8 \ m A \end{array}$	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	$V_{IN} = 5.5 V \text{ or}$ $V_{OUT} = 5.5 V$	0	-	-	1.0	-	10	-	10	μΑ
I _{CC}	Quiescent Supply Current	V _{IN} = V _{CC} or GND	5.5	-	-	1.0	-	20	-	40	μΑ

		Test	v _{cc}	٦	「 _A = 25°	С	-40°C ≤ 1	T _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		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 Cur- rent	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	μA
I _{CC}	Quiescent Supply Current	V _{IN} = V _{CC} or GND	5.5	-	-	1.0	-	20	-	40	μΑ
I _{CCT}	Increase in Quies- cent 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

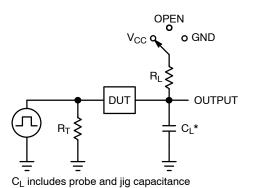
DC ELECTRICAL CHARACTERISTICS (MC74VHC1GT132)

AC ELECTRICAL CHARACTERISTICS

				Ţ	A = 25°	С	-40°C ≤ 1	Γ _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	-	4.6	11.9	-	14.0	-	16.1	ns
t _{PHL}	A to Y (Figures 3 and 4)	C _L = 50 pF		-	6.1	15.4	-	17.5	-	19.6	
	,	C _L = 15 pF	4.5 to 5.5	-	3.6	7.7	-	9.0	-	10.3	
		C _L = 50 pF		-	4.3	9.7	-	11.0	-	12.3	
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	
- 0		and a set of the set o	1.1.2.2.1	

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; $P_D = C_{PD} \bullet V_{CC}^2 \bullet f_{in} + I_{CC} \bullet V_{CC}$.

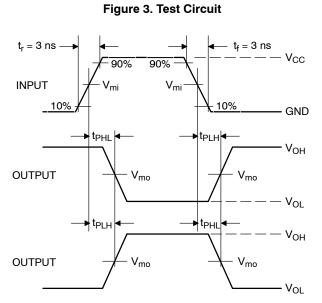


 R_T is Z_{OUT} of pulse generator (typically 50 Ω)

f = 1 MHz

Test	Switch Position	C _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



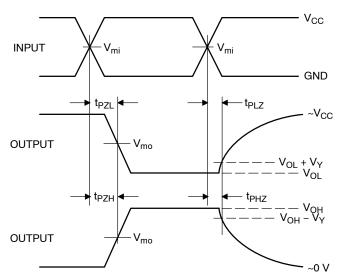


Figure 4. Switching Waveforms

		V _{mo} , V		V _{mo} , V		
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

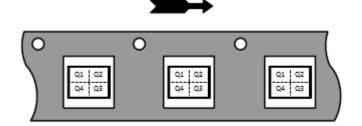
Device	Packages	Specific Device Code	Pin 1 Orientation (See below)	Shipping [†]
M74VHC1G132DFT1G	SC-88A	VD	Q2	3000 / Tape & Reel
M74VHC1G132DFT2G	SC-88A	VD	Q4	3000 / Tape & Reel
NLVVHC1G132DFT1G*	SC-88A	VD	Q2	3000 / Tape & Reel
NLVVHC1G132DFT2G*	SC-88A	VD	Q4	3000 / Tape & Reel
MC74VHC1GT132DFT1G (In Development)	SC-88A	TBD	Q4	3000 / Tape & Reel
MC74VHC1GT132DFT2G (In Development)	SC-88A	TBD	Q2	3000 / Tape & Reel
MC74VHC1G132DBVT1G	SC-74A	VD	Q4	3000 / Tape & Reel
MC74VHC1GT132DBVT1G (In Development)	SC-74A	TBD	Q4	3000 / Tape & Reel
M74VHC1G132DTT1G	TSOP-5	VD	Q4	3000 / Tape & Reel
NLVVHC1G132DTT1G*	TSOP-5	VD	Q4	3000 / Tape & Reel
MC74VHC1GT132DTT1G (In Development)	TSOP-5	TBD	Q4	3000 / Tape & Reel
MC74VHC1G132XV5T2G (In Development)	SOT-553	TBD	Q4	4000 / Tape & Reel
MC74VHC1GT132XV5T2G (In Development)	SOT-553	TBD	Q4	4000 / Tape & Reel
MC74VHC1G132P5T5G (In Development)	SOT-953	TBD	Q2	8000 / Tape & Reel
MC74VHC1GT132P5T5G (In Development)	SOT-953	TBD	Q2	8000 / Tape & Reel
MC74VHC1G132MU1TCG (In Development)	UDFN6, 1.45 x 1.0, 0.5P	TBD	Q4	3000 / Tape & Reel
MC74VHC1GT132MU1TCG (In Development)	UDFN6, 1.45 x 1.0, 0.5P	TBD	Q4	3000 / Tape & Reel
MC74VHC1G132MU3TCG (In Development)	UDFN6, 1.0 x 1.0, 0.35P	TBD	Q4	3000 / Tape & Reel
MC74VHC1GT132MU3TCG (In Development)	UDFN6, 1.0 x 1.0, 0.35P	TBD	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.

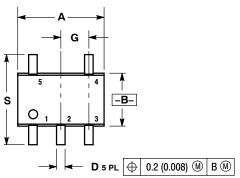
Pin 1 Orientation in Tape and Reel

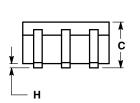
Direction of Feed

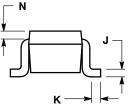


PACKAGE DIMENSIONS

SC-88A (SC-70-5/SOT-353) CASE 419A-02 ISSUE L



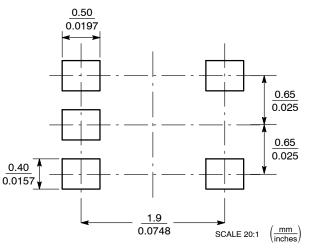




NOTES: 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982. 2. CONTROLLING DIMENSION: INCH. 3. 419A-01 OBSOLETE. NEW STANDARD 419A-02. 4. DIMENSIONS A AND B DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR GATE BURRS.

	INCHES		MILLIMETERS		
DIM	MIN	MAX	MIN	MAX	
Α	0.071	0.087	1.80	2.20	
В	0.045	0.053	1.15	1.35	
С	0.031	0.043	0.80	1.10	
D	0.004	0.012	0.10	0.30	
G	0.026 BSC		0.65 BSC		
н		0.004		0.10	
J	0.004	0.010	0.10	0.25	
Κ	0.004	0.012	0.10	0.30	
Ν	0.008 REF		0.20 REF		
S	0.079	0.087	2.00	2.20	

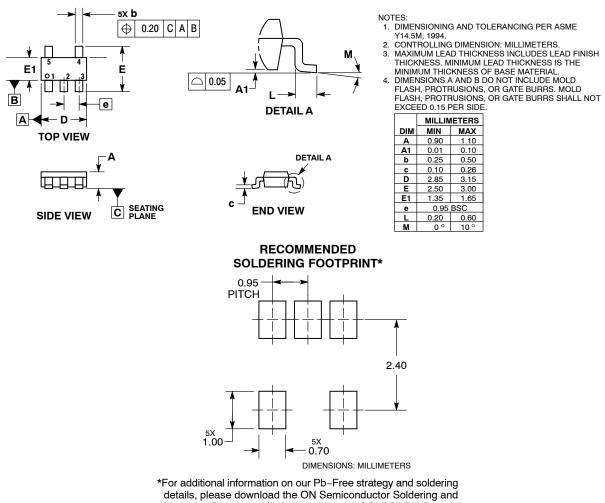
SOLDER FOOTPRINT*



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

PACKAGE DIMENSIONS

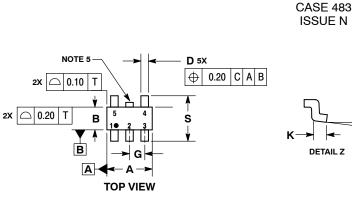
SC-74A CASE 318BQ **ISSUE B**



Mounting Techniques Reference Manual, SOLDERRM/D.

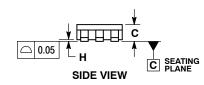
PACKAGE DIMENSIONS

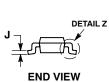
TSOP-5

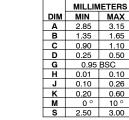




DETAIL Z







NOTES:

2.

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994. CONTROLLING DIMENSION: MILLIMETERS.

CONTROLLING DIMENSION: MILLIMETERS.
 MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH THICKNESS. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.
 DIMENSIONS A AND B DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR GATE BURRS. MOLD FLASH, PROTRUSIONS, OR GATE BURRS SHALL NOT EXCEED 0.15 PER SIDE. DIMENSION A.
 OPTIONAL CONSTRUCTION: AN ADDITIONAL TRIMMED LEAD IS ALLOWED IN THIS I OCATION

TRIMMED LEAD IS ALLOWED IN THIS LOCATION. TRIMMED LEAD NOT TO EXTEND MORE THAN 0.2 FROM BODY.

1.65

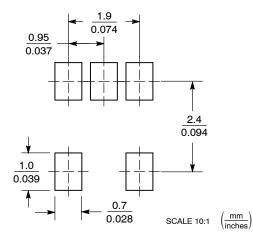
1.10

0.26

10 °

3.00

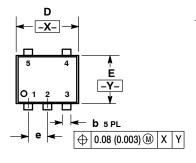
SOLDERING FOOTPRINT*

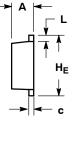


*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

PACKAGE DIMENSIONS

SOT-553, 5 LEAD CASE 463B **ISSUE C**

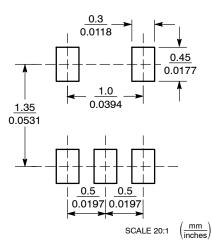




NOTES: 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982. 2. CONTROLLING DIMENSION: MILLIMETERS 3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH THICKNESS. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL. INCHES

	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

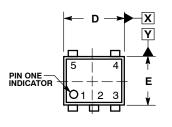
SOLDERING FOOTPRINT*



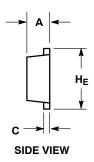
*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

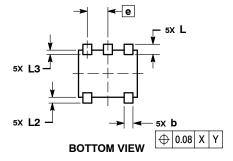
PACKAGE DIMENSIONS

SOT-953 CASE 527AE ISSUE E



TOP VIEW

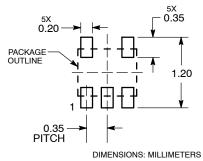




- NOTES:
 DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
 CONTROLLING DIMENSION: MILLIMETERS
 MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF THE BASE MATERIAL.
 DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR GATE BURRS.

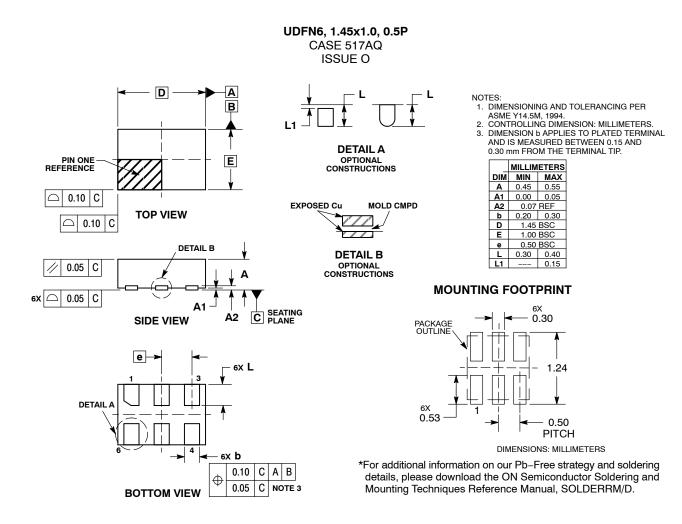
	MILLIMETERS			
DIM	MIN	NOM	MAX	
Α	0.34	0.37	0.40	
b	0.10	0.15	0.20	
С	0.07	0.12	0.17	
D	0.95	1.00	1.05	
E	0.75	0.80	0.85	
е	0.35 BSC			
HE	0.95	1.00	1.05	
L	0.175 REF			
L2	0.05	0.10	0.15	
L3			0.15	

SOLDERING FOOTPRINT*

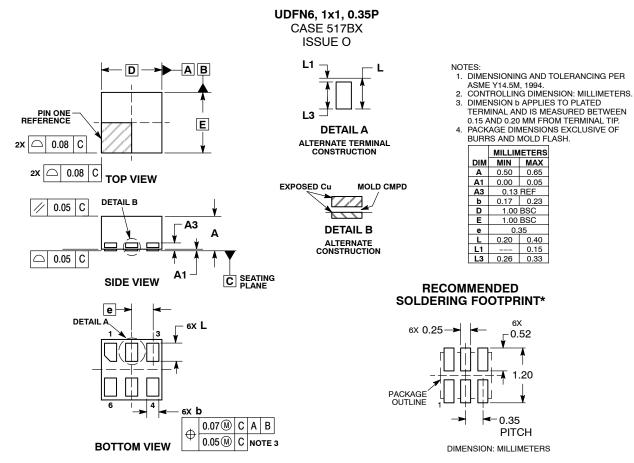


*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

PACKAGE DIMENSIONS



PACKAGE DIMENSIONS



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