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Single Inverter with Open Drain Output

MC74VHC1G05, MC74VHC1GT05

The MC74VHC1G05 / MC74VHC1GT05 is a single inverter with open drain output in tiny footprint packages.

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

- $\bullet\,$ Designed for 2.0 V to 5.5 V V_{CC} Operation
- 3.5 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

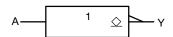


Figure 1. Logic Symbol



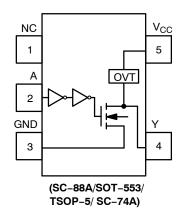
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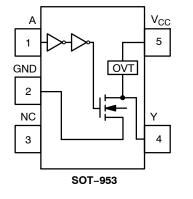
www.onsemi.com

		MARKING DIAGRAMS
	SC-88A DF SUFFIX CASE 419A	П П ××м• о •
	SC-74A DBV SUFFIX CASE 318BQ	
5	TSOP-5 DT SUFFIX CASE 483	5 XX M• • • 1
C.C.R.	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 °
XX M	= Specific Devic = Date Code* = Pb-Free Pack	
*Date Cod	crodot may be in eith le orientation and/o anding upon manufac	r position may

ORDERING INFORMATION

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





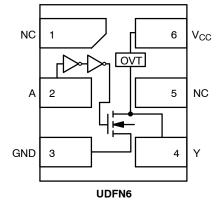


Figure 2. Pinout (Top View)

PIN ASSIGNMENT

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

Pin	Function
1	NC
2	А
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	Z
Н	L

MAXIMUM RATINGS

Symbol	Characteristics	Value	Unit	
V_{CC}	DC Supply Voltage TSOP- SC-74A, SC-88A, UDFN6, SO	5, SC-88A (NLV) T-553, SOT-953	-0.5 to +7.0 -0.5 to +6.5	V
V _{IN}	DC Input Voltage TSOP- SC-74A, SC-88A, UDFN6, SO	5, SC–88A (NLV) T–553, SOT–953	-0.5 to +7.0 -0.5 to +6.5	V
V _{OUT}	TSOP-5, SC-88A (NLV) Tri-Sta	ligh or Low State) ate Mode (Note 1) 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 (H SC-74A, SC-88A, UDFN6, SOT-553, SOT-953 Tri-Sta Power-Down	-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 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
TJ	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 Oxyge	en Index: 28 to 34	UL 94 V-0 @ 0.125 in	-
V_{ESD}		uman Body Model ged 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	100 20	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	20 20 10 5	

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 (MC74VHC1G05)

		Test	Vcc	T _A = 25°C		$-40^\circ C \le T_A \le 85^\circ C$		$-55^{\circ}C \leq T_{A} \leq 125^{\circ}C$			
Symbol	Parameter	Conditions	(V)	Min	Тур	Max	Min	Max	Min	Max	Unit
VIH	High-Level Input		2.0	1.5	-	-	1.5	-	1.5	-	V
	Voltage		3.0	2.1	-	-	2.1	-	2.1	-	
			4.5	3.15	-	-	3.15	-	3.15	-	
			5.5	3.85	-	-	3.85	-	3.85	-	
V _{IL}	Low-Level Input		2.0	-	-	0.5	-	0.5	-	0.5	V
	Voltage		3.0	-	-	0.9	-	0.9	-	0.9	
			4.5	-	-	1.35	-	1.35	-	1.35	
			5.5	-	-	1.65	-	1.65	-	1.65	
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 0.1 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 _{OZ}	3-State Output Leakage Current	V _{OUT} = 0 V to 5.5 V	5.5	-	-	±0.25	-	±2.5	-	±2.5	μΑ
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

DC ELECTRICAL CHARACTERISTICS (MC74VHC1GT05)

		Test	v _{cc}	T _A = 25°C			-40°C ≤ -	T_A ≤ 85°C	−55°C ≤ T	A ≤ 125°C	
Symbol	Parameter	Conditions	• CC (V)	Min	Тур	Max	Min	Max	Min	Max	Unit
V _{IH}	High-Level Input		2.0	1.0	-	-	1.0	-	1.0	-	V
	Voltage		3.0	1.4	-	-	1.4	-	1.4	-	1
			4.5	2.0	-	-	2.0	-	2.0	-]
			5.5	2.0	-	-	2.0	-	2.0	-]
VIL	Low-Level Input		2.0	-	-	0.28	-	0.28	-	0.28	V
	Voltage		3.0	-	-	0.45	-	0.45	-	0.45]
			4.5	-	-	0.8	1	0.8	-	0.8]
			5.5	-	-	0.8	-	0.8	-	0.8]
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 Cur- rent	V _{IN} = 5.5 V or GND	2.0 to 5.5	-	-	±0.1	-	±1.0	-	±1.0	μΑ
I _{OZ}	3-State Output Leakage Current	V _{OUT} = 0 V to 5.5 V	5.5	_	-	±0.25	-	±2.5	-	±2.5	μΑ
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 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

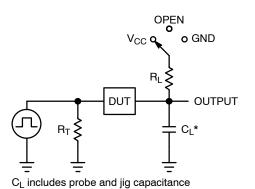
AC ELECTRICAL CHARACTERISTICS

				Т	A = 25°	C	-40°C ≤ .	T _A ≤ 85°C	–55°C ≤ 1	A ≤ 125°C	
Symbol	Parameter	Conditions	V _{CC} (V)	Min	Тур	Max	Min	Max	Min	Max	Unit
t _{PZL}	Propagation Delay,	C _L = 15 pF	3.0 to 3.6	-	5.0	7.1	-	8.5	-	10.0	ns
	A to Y (Figures 3 and 4)	C _L = 50 pF		-	7.5	10.6	-	12.0	-	14.5	
		C _L = 15 pF	4.5 to 5.5	-	3.8	5.5	-	6.5	-	8.0	1
		C _L = 50 pF		-	5.3	7.5	-	8.5	-	10.0	
t _{PLZ}	Propagation Delay,	C _L = 15 pF	3.0 to 3.6	-	6.5	9.7	-	11.5	-	12.55	ns
	A to Y (Figures 3 and 4)	C _L = 50 pF	1	-	7.5	10.6	-	12.0	-	14.5	1
		C _L = 15 pF	4.5 to 5.5	-	4.8	6.8	_	8.0	-	9.0	1
		C _L = 50 pF	1	-	5.3	7.5	-	8.5	-	10.0	1
C _{IN}	Input Capacitance			-	4.0	10	-	10	-	10	pF
C _{OUT}	Output Capacitance	Output in High Impedance State		-	6.0	-	-	-	-	-	pF
	Τιχ							Typical	@ 25°C, V _C	_C = 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; $P_D = C_{PD} \bullet V_{CC}^2 \bullet f_{in} + I_{CC} \bullet V_{CC}$.

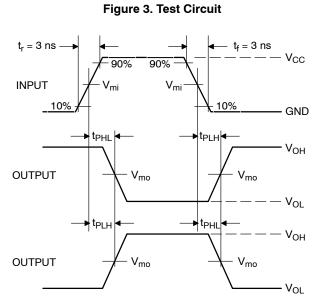


 R_T is Z_{OUT} of pulse generator (typically 50 Ω)

f = 1 MHz

Test	Switch Position	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



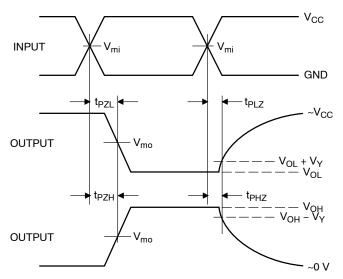


Figure 4. Switching Waveforms

		V _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

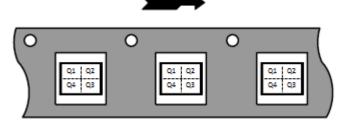
ORDERING INFORMATION

Device	Packages	Specific Device Code	Pin 1 Orientation (See below)	Shipping [†]
MC74VHC1G05DFT1G	SC-88A	VF	Q2	3000 / Tape & Reel
MC74VHC1G05DFT2G	SC-88A	VF	Q4	3000 / Tape & Reel
NLVVHC1G05DFT1G*	SC-88A	VF	Q2	3000 / Tape & Reel
NLVVHC1G05DFT2G*	SC-88A	VF	Q4	3000 / Tape & Reel
MC74VHC1GT05DFT1G (In Development)	SC-88A	TBD	Q4	3000 / Tape & Reel
MC74VHC1GT05DFT2G (In Development)	SC-88A	TBD	Q2	3000 / Tape & Reel
MC74VHC1G05DBVT1G	SC-74A	VF	Q4	3000 / Tape & Reel
MC74VHC1GT05DBVT1G (In Development)	SC-74A	TBD	Q4	3000 / Tape & Reel
MC74VHC1G05DTT1G	TSOP-5	VF	Q4	3000 / Tape & Reel
MC74VHC1GT05DTT1G (In Development)	TSOP-5	TBD	Q4	3000 / Tape & Reel
MC74VHC1G05XV5T2G (In Development)	SOT-553	TBD	Q4	4000 / Tape & Reel
MC74VHC1GT05XV5T2G (In Development)	SOT-553	TBD	Q4	4000 / Tape & Reel
MC74VHC1G05P5T5G (In Development)	SOT-953	TBD	Q2	8000 / Tape & Reel
MC74VHC1GT05P5T5G (In Development)	SOT-953	TBD	Q2	8000 / Tape & Reel
MC74VHC1G05MU1TCG (In Development)	UDFN6, 1.45 x 1.0, 0.5P	TBD	Q4	3000 / Tape & Reel
MC74VHC1GT05MU1TCG (In Development)	UDFN6, 1.45 x 1.0, 0.5P	TBD	Q4	3000 / Tape & Reel
MC74VHC1G05MU3TCG (In Development)	UDFN6, 1.0 x 1.0, 0.35P	TBD	Q4	3000 / Tape & Reel
MC74VHC1GT05MU3TCG (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.

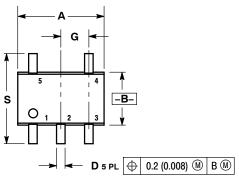
*NLV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC–Q100 Qualified and PPAP Capable.

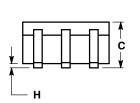


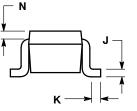


PACKAGE DIMENSIONS

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



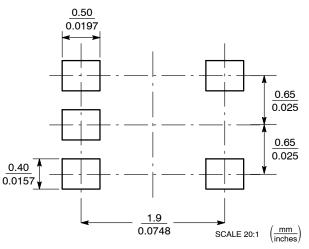




NOTES: 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982. 2. CONTROLLING DIMENSION: INCH. 3. 419A-01 OBSOLETE. NEW STANDARD 419A-02. 4. DIMENSIONS A AND B DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR GATE BURRS.

	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	

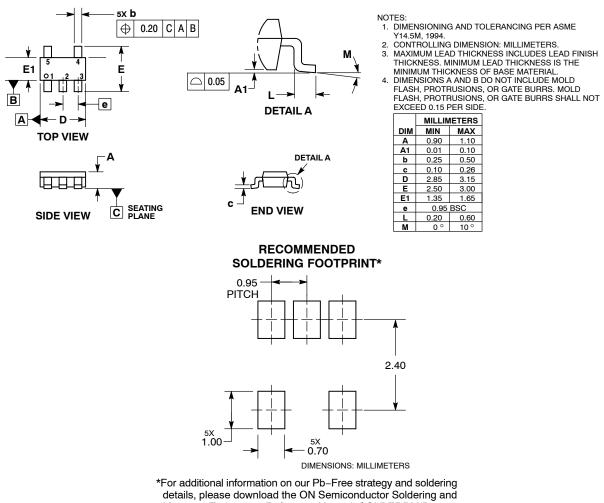
SOLDER FOOTPRINT*



*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

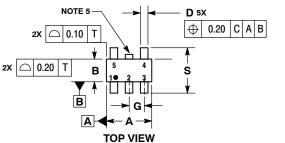
SC-74A CASE 318BQ **ISSUE B**



Mounting Techniques Reference Manual, SOLDERRM/D.

PACKAGE DIMENSIONS

TSOP-5 CASE 483-02 **ISSUE M**





DETAIL Z

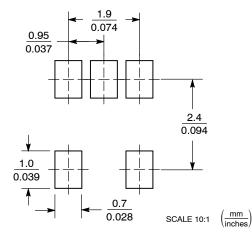
- NOTES:
 1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
 2. CONTROLLING DIMENSION: MILLIMETERS.
 3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH THICKNESS. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.
 4. DIMENSIONS A AND B DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR GATE BURRS. MOLD FLASH, PROTRUSIONS, OR GATE BURRS SHALL NOT EXCEED 15 PER SIDE. DIMENSION A.
 5. OPTIONAL CONSTRUCTION: AN ADDITIONAL
- 5. OPTIONAL CONSTRUCTION: AN ADDITIONAL TRIMMED LEAD IS ALLOWED IN THIS LOCATION. TRIMMED LEAD NOT TO EXTEND MORE THAN 0.2 FROM BODY.

	MILLIMETERS		
DIM	MIN MAX		
Α	2.85	3.15	
В	1.35	1.65	
С	0.90	1.10	
D	0.25	0.50	
G	0.95 BSC		
н	0.01 0.10		
J	0.10 0.26		
К	0.20 0.60		
М	0° 10°		
S	2.50 3.00		

С 0.05 н SIDE VIEW

SOLDERING FOOTPRINT*

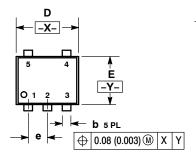
END VIEW

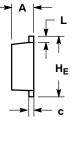


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PACKAGE DIMENSIONS

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

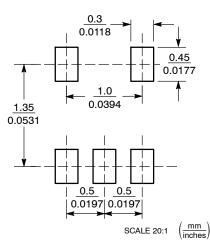




NOTES: 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982. 2. CONTROLLING DIMENSION: MILLIMETERS 3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH THICKNESS. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL. INCHES

	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
Е	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

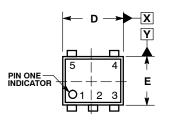
SOLDERING FOOTPRINT*



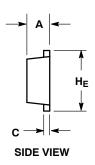
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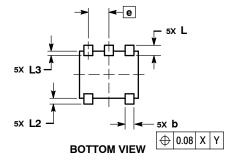
PACKAGE DIMENSIONS

SOT-953 CASE 527AE ISSUE E



TOP VIEW

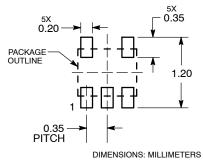




- NOTES:
 1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
 2. CONTROLLING DIMENSION: MILLIMETERS
 3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF THE BASE MATERIAL.
 4. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR GATE BURRS.

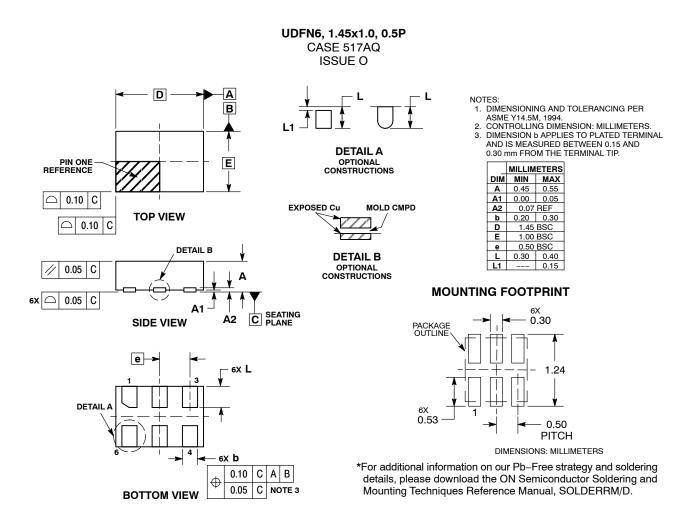
	MILLIMETERS			
DIM	MIN	NOM	MAX	
Α	0.34	0.37	0.40	
b	0.10	0.15	0.20	
С	0.07	0.12	0.17	
D	0.95	1.00	1.05	
Е	0.75	0.80	0.85	
e	0.35 BSC			
HE	0.95	1.00	1.05	
L	0.175 REF			
L2	0.05	0.10	0.15	
L3			0.15	

SOLDERING FOOTPRINT*

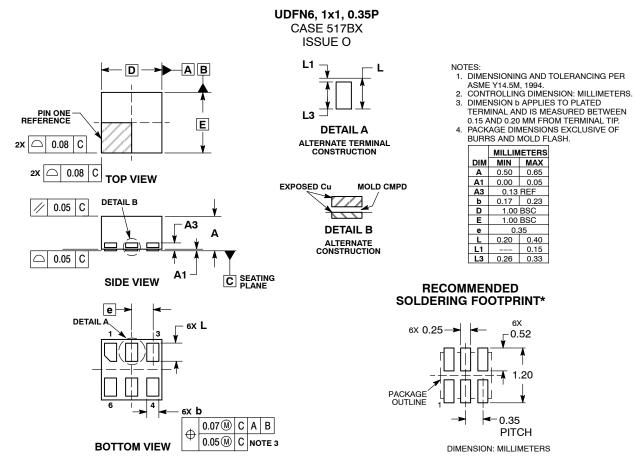


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PACKAGE DIMENSIONS



PACKAGE DIMENSIONS



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