Single 2-Input AND Gate

MC74VHC1G08, MC74VHC1GT08

The MC74VHC1G08 / MC74VHC1GT08 is a single 2 input AND gate in tiny footprint packages. The MC74VHC1G08 has CMOS-level input thresholds while the MC74VHC1GT08 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. 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
- 3.5 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, 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

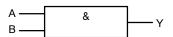
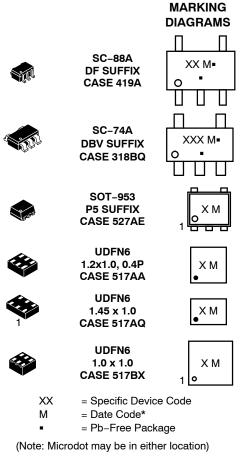


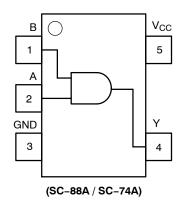
Figure 1. Logic Symbol

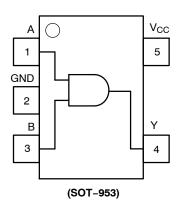


*Date Code orientation and/or position may vary depending upon manufacturing location.

ORDERING INFORMATION

See detailed ordering, marking and shipping information on page 7 of this data sheet.





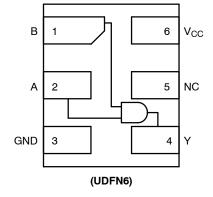


Figure 2. Pinout (Top View)

PIN ASSIGNMENT

(SC-88A / SC-74A)

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

PIN ASSIGNMEN	T (SOT-953)

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

PIN ASSIGNMENT (UDFN)

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

FUNCTION TABLE

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

MAXIMUM RATINGS

Symbol	Characteristics	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}	Tri	e (High or Low State) –State Mode (Note 1) wn Mode (V _{CC} = 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		
I _{IK}	DC Input Diode Current	V _{IN} < GND	-20	mA		
I _{OK}	DC Output Diode Current	V _{OUT} < GND				
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		
PD	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	xygen 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

Shresses exceeding mose listed in the Maximum Hatings 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/IESD7 Class II.

4. 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 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	V
T _A	Operating Temperature Range	-55	+125	°C
t _r , t _f	Input Rise and Fall Time $V_{CC} = 2.0 \text{ V}$ $V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$ $V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$ $V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$	0 0 0 0	20 20 10 5	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.

DC ELECTRICAL CHARACTERISTICS (MC74VHC1G08)

		Test	Vcc	٦	Γ _A = 25°	C	-40°C ≤ -	F_A ≤ 85°C	–55°C ≤ T	A ≤ 125°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	-	
VIL	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 _{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	$ \begin{array}{l} V_{IN} = V_{IH} \text{ or } V_{IL} \\ I_{OL} = 50 \ \mu A \\ I_{OL} = 4 \ m A \\ I_{OL} = 8 \ m A \end{array} $	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
ICC	Quiescent Supply Current	V _{IN} = V _{CC} or GND	5.5	-	-	1.0	-	20	-	40	μΑ

DC ELECTRICAL	CHARACTERISTICS	(MC74VHC1GT08)
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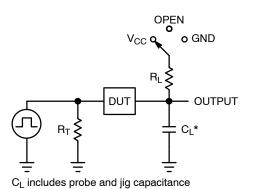
		Test	Vcc	T _A = 25°C			-40°C ≤ -	T_A ≤ 85°C	-55°C ≤ 1	Γ _A ≤ 125°C	
Symbol	Parameter	Conditions	v cc (V)	Min	Тур	Max	Min	Max	Min	Max	Unit
V_{IH}	High-Level Input		2.0	1.0	-	-	1.0	-	1.0	-	V
	Voltage		3.0	1.4	-	-	1.4	-	1.4	-	1
			4.5	2.0	-	-	2.0	-	2.0	-	
			5.5	2.0	-	-	2.0	-	2.0	-	1
V_{IL}	Low-Level Input		2.0	-	-	0.28	-	0.28	-	0.28	V
	Voltage		3.0	-	1	0.45	1	0.45	-	0.45	
			4.5	-	I	0.8	-	0.8	-	0.8	
			5.5	-	-	0.8	-	0.8	-	0.8	
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	$ \begin{array}{l} V_{IN} = V_{IH} \text{ or } V_{IL} \\ I_{OL} = 50 \ \mu A \\ I_{OL} = 50 \ \mu A \\ I_{OL} = 50 \ \mu A \\ I_{OL} = 4 \ m A \\ I_{OL} = 8 \ m A \end{array} $	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	μA
ICC	Quiescent Supply Current	V _{IN} = V _{CC} or GND	5.5	-	-	1.0	-	20	-	40	μA
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

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

AC ELECTRICAL CHARACTERISTICS

				Ţ	A = 25°	C	-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	-	4.1	8.8	-	10.5	-	12.5	ns
tPHL	A to Y (Figures 3 and 4)	C _L = 50 pF		-	5.9	12.3	-	14.0	-	16.5	
		C _L = 15 pF	4.5 to 5.5	-	3.5	5.9	-	7.0	-	9.0	
		C _L = 50 pF		-	4.2	7.9	-	9.0	-	11.0	
C _{IN}	Input Capacitance			-	4.0	10	-	10	-	10	pF
C _{OUT}	Output Capacitance	Output in High Impedance State		-	6.0	-	_	_	-	_	pF
Symbol	Parameter							Typical (@ 25°C, V _C	c = 5.0 V	Unit
C _{PD}	Power Dissipation Ca	pacitance (Not	e 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; $P_D = C_{PD} \bullet V_{CC}^2 \bullet f_{in} + I_{CC} \bullet V_{CC}$.

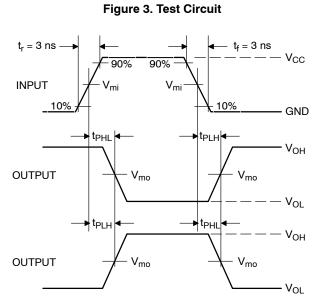


 R_T is Z_{OUT} of pulse generator (typically 50 Ω)

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



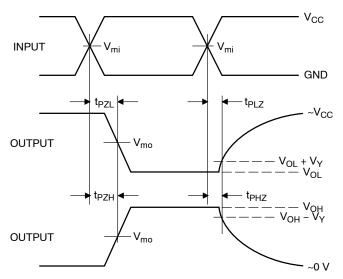


Figure 4. Switching Waveforms

		V _{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

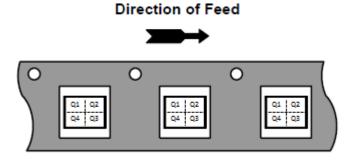
ORDERING INFORMATION

Device	Packages	Specific Device Code	Pin 1 Orientation (See below)	Shipping [†]
MC74VHC1G08DFT1G	SC-88A	V2	Q2	3000 / Tape & Reel
MC74VHC1G08DFT2G	SC-88A	V2	Q4	3000 / Tape & Reel
MC74VHC1G08DFT1G-Q*	SC-88A	V2	Q2	3000 / Tape & Reel
MC74VHC1G08DFT2G-Q*	SC-88A	V2	Q4	3000 / Tape & Reel
MC74VHC1GT08DFT1G	SC-88A	VT	Q2	3000 / Tape & Reel
MC74VHC1GT08DFT2G	SC-88A	VT	Q4	3000 / Tape & Reel
MC74VHC1GT08DFT1G-Q*	SC-88A	VT	Q2	3000 / Tape & Reel
MC74VHC1GT08DFT2G-Q*	SC-88A	VT	Q4	3000 / Tape & Reel
MC74VHC1G08DBVT1G	SC-74A	V2	Q4	3000 / Tape & Reel
MC74VHC1G08DBVT1G-Q*	SC-74A	V2	Q4	3000 / Tape & Reel
MC74VHC1GT08DBVT1G	SC-74A	VT	Q4	3000 / Tape & Reel
MC74VHC1GT08DBVT1G-Q*	SC-74A	VT	Q4	3000 / Tape & Reel
MC74VHC1G08P5T5G	SOT-953	E	Q2	8000 / Tape & Reel
MC74VHC1GT08P5T5G	SOT-953	Р	Q2	8000 / Tape & Reel
MC74VHC1G08MU1TCG	UDFN6, 1.45 x 1.0, 0.5P	K (Rotated 180° CW)	Q4	3000 / Tape & Reel
MC74VHC1GT08MU1TCG	UDFN6, 1.45 x 1.0, 0.5P	4 (Rotated 270° CW)	Q4	3000 / Tape & Reel
MC74VHC1G08MU2TCG	UDFN6, 1.2 x 1.0, 0.4P	2	Q4	3000 / Tape & Reel
MC74VHC1G08MU3TCG	UDFN6, 1.0 x 1.0, 0.35	D (Rotated 270° CW)	Q4	3000 / Tape & Reel
MC74VHC1GT08MU3TCG	UDFN6, 1.0 x 1.0, 0.35	К	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



SC-74A-5 3.00x1.50x0.95, 0.95P CASE 318BQ **ISSUE C** DATE 26 FEB 2024 NOTES: 5X b ⊕ 0.20 M C A B DIMENSIONING AND TOLERANCING CONFORM TO ASME 1. Y14.5-2018. 2. ALL DIMENSION ARE IN MILLIMETERS (ANGLES IN DEGREES). В 3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH THICKNESS. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL. DIMENSIONS D AND E1 DO NOT INCLUDE MOLD FLASH, Ē 4 E1 PROTRUSIONS OF GATE BURRS. MOLD FLASH, PROTRUSIONS, OR GATE BURRS SHALL NOT EXCEED 0.15 PER SIDE. MILLIMETERS ○ 0.15 C DIM NOM. MIN. MAX. 2X е 0.90 1.00 1.10 А A A1 0.01 0.18 0.10 0.95 REF Α2 TOP VIEW 0.25 0.37 0.50 b DETAIL A (A2) 0.10 0.18 0.26 С Α D 2.85 3.00 3.15 Ε 2.75 BSC E1 1.35 1.50 1.65 0.05 C SEATING е 0.95 BSC Α1 Ċ PLANE END VIEW SIDE VIEW L 0.20 0.40 0.60 L1 0.62 REF 0.25 BSC 12 GAUGE PLANE L2 5° 10° Θ 0° 1.90 0.95 Ð, (L1)"A" DETAIL SCALE 2:1 2.40 GENERIC **MARKING DIAGRAM*** 1.00 0.70 XXX M= -O RECOMMENDED MOUNTING FOOTPRINT* FOR ADDITIONAL INFORMATION ON OUR Pb-FREE STRATEGY AND SOLDERING DETAILS, PLEASE DOWNLOAD THE ON SEMICONDUCTOR SOLDERING AND MOUNTING XXX = Specific Device Code = Date Code Μ TECHNIQUES REFERENCE MANUAL, SOLDERRM/D. = Pb-Free Package (Note: Microdot may be in either 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. Electronic versions are uncontrolled except when accessed directly from the Document Repository. **DOCUMENT NUMBER:** 98AON66279G Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red. **DESCRIPTION:** SC-74A-5 3.00x1.50x0.95, 0.95P PAGE 1 OF 1

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DATE 11 APR 2023



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

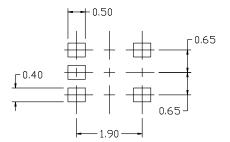
NDTES:

- 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
- 2. CONTROLLING DIMENSION: MILLIMETERS
- 3. 419A-01 DBSDLETE. NEW STANDARD 419A-02
- 4. 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.

- → 5X b (♦ 0.2@ B@)	

e

E1



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.

DIM	MILLIMETERS			
UIU	MIN.	NDM.	MAX,	
А	0.80	0.95	1.10	
A1			0.10	
AЗ	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	

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.

XXX = Specific Device Code

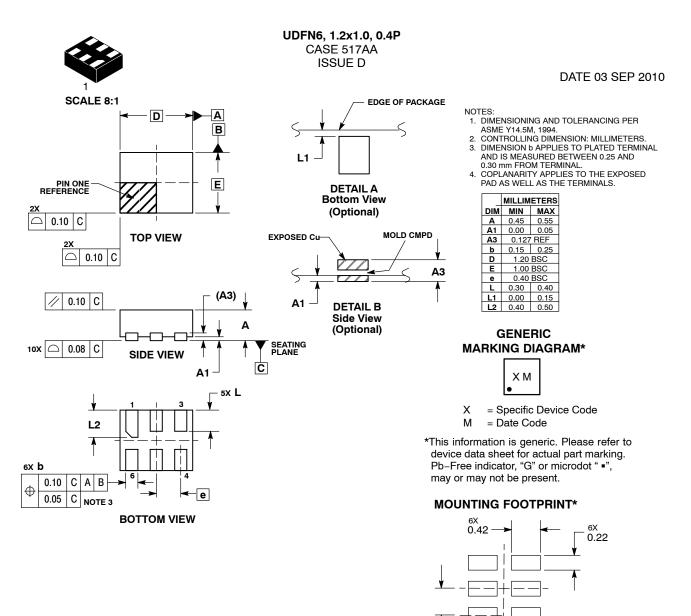
M = Date Code = Pb-Free Package

(Note: Microdot may be in either location)

DESCRIPTION:	SC-88A (SC-70-	5/SOT-353)			PAGE 1 OF 1
DOCUMENT NUMBER:	98ASB42984B			t when accessed directly from /hen stamped "CONTROLLED	
4. COLLECTOR 5. COLLECTOR STYLE 6: PIN 1. EMITTER 2 2. BASE 2 3. EMITTER 1 4. COLLECTOR 5. COLLECTOR 2/BASE	4. COLLECTOR 5. CATHODE STYLE 7: PIN 1. BASE 2. EMITTER 3. BASE 4. COLLECTOR	4. CATHODE 2 5. CATHODE 1 STYLE 8: PIN 1. CATHODE 2. COLLECTOR 3. N/C 4. BASE 5. EMITTER	4. GATE 1 5. GATE 2 STYLE 9: PIN 1. ANODE 2. CATHODE 3. ANODE 4. ANODE 5. ANODE	4. CATHODE 3 5. CATHODE 4 Note: Please refer to style callout. If style t out in the datasheet p datasheet pinout or p	ype is not called refer to the device
STYLE 1: PIN 1. BASE 2. EMITTER 3. BASE	STYLE 2: PIN 1. ANODE 2. EMITTER 3. BASE	STYLE 3: PIN 1. ANODE 1 2. N/C 3. ANODE 2	STYLE 4: PIN 1. SOURCE 1 2. DRAIN 1/2 3. SOURCE 1	STYLE 5: PIN 1. CATHODE 2. COMMON ANOE 3. CATHODE 2	DE

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semi



1.07 PITCH DIMENSIONS: MILLIMETERS

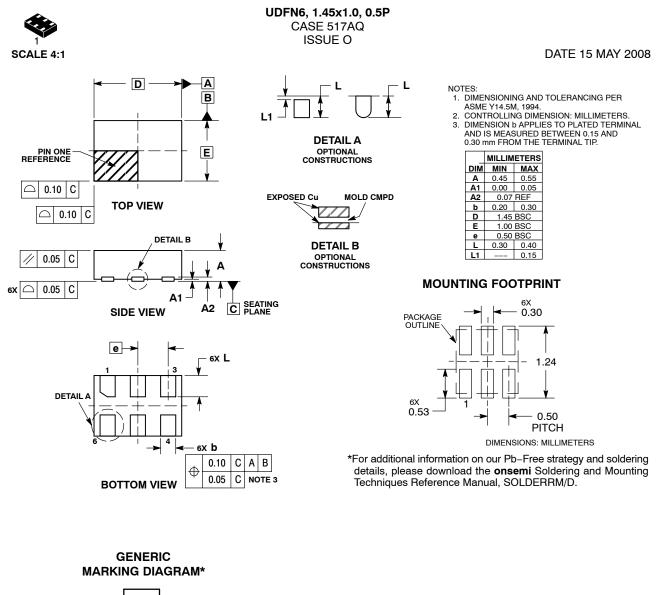
*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

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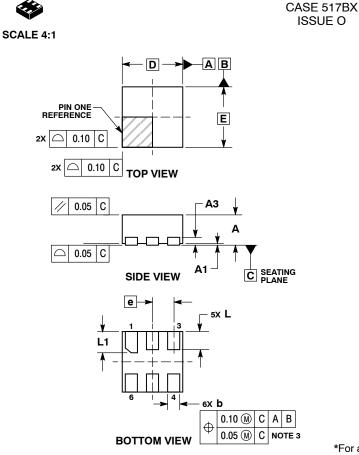
= Specific Device Code

Х

*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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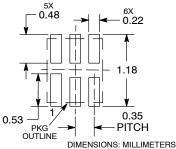
DATE 18 MAY 2011

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

- CONTROLLING DIMENSION: MILLIMETERS.
 DIMENSION & APPLIES TO PLATED TERMINAL AND IS MEASURED BETWEEN
- 0.15 AND 0.20 MM FROM TERMINAL TIP. 4. PACKAGE DIMENSIONS EXCLUSIVE OF BURRS AND MOLD FLASH.

1	BURNS AND WOLD FLA				
		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			
	Е	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 **onsemi** 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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UDFN6, 1x1, 0.35P

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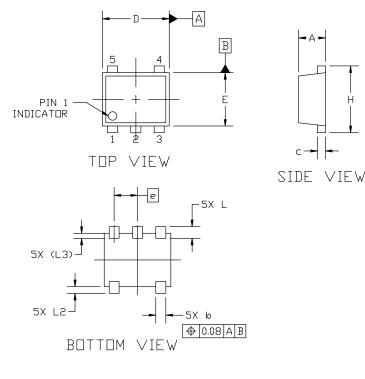


SOT-953 1.00x0.80x0.37, 0.35P CASE 527AE ISSUE F

DATE 17 JAN 2024

NDTES:

- 1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 2018.
- 2. CONTROLLING DIMENSION: MILLIMETERS.
- 3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS DF THE BASE MATERIAL.
- 4. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR GATE BURRS.



GENERIC MARKING DIAGRAM*

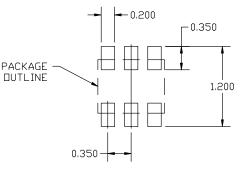


- X = Specific Device Code M = Month Code
- *This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "•", may or may not be present. Some products may not follow the Generic Marking.

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DESCRIPTION:	SOT-953 1.00x0.80x0.37, 0.35P		PAGE 1 OF 1

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MILLIMETERS					
DIM	MIN	NDM	MAX		
A	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		
e	(0.35 BSC			
Н	0,95	1.00	1.05		
Ĺ	0.125	0.175	0.225		
L2	0.05	0.10	0.15		
L3	0.075 (REF)				



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.

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