onsemi

Single 2-Input OR Gate

MC74VHC1G32, MC74VHC1GT32

The MC74VHC1G32 / MC74VHC1GT32 is a single 2-input OR Gate in tiny footprint packages. The MC74VHC1G32 has CMOS-level input thresholds while the MC74VHC1GT32 has TTL-level 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
- 3.7 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

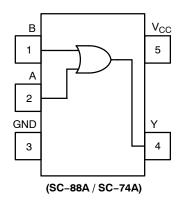


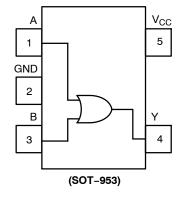
Figure 1. Logic Symbol

		DIAGRAMS
	SC-88A DF SUFFIX CASE 419A	П П XX М• 0 П
- Sur	SC-74A DBV SUFFIX CASE 318BQ	, ∏ _ ∏ XXX M•
	SOT-953 P5 SUFFIX CASE 527AE	
	UDFN6 1.45 x 1.0 CASE 517AQ	● XM
1	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	
(Note: Micr	odot may be in eithe	r location)
	orientation and/or ding upon manufactu	

ORDERING INFORMATION

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





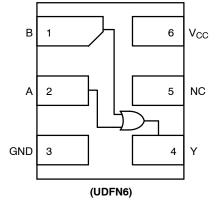


Figure 2. Pinout (Top View)

PIN ASSIGNMENT

(SC-88A / SC-74A)

Pin	Function
1	В
2	А
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	Output	
Α	В	Y
L	L	L
L	Н	Н
Н	L	Н
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-S	(High or Low State) State Mode (Note 1) In 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	-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 Oxy	/gen Index: 28 to 34	UL 94 V-0 @ 0.125 in	-
V _{ESD}		Human Body Model arged 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	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}	-	ode (High or Low State)0 Γ i-State Mode (Note 1)0Down Mode (V _{CC} = 0 V)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	$\begin{array}{c c} V_{CC} = 2.0 \ V & 0 \\ V_{CC} = 2.3 \ V \ to \ 2.7 \ V & 0 \\ V_{CC} = 3.0 \ V \ to \ 3.6 \ V & 0 \\ V_{CC} = 4.5 \ V \ to \ 5.5 \ V & 0 \end{array}$	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.

Symbol Pa		Test	v _{cc}	٦	Γ _A = 25°	C	-40°C ≤ 1	Γ _A ≤ 85°C	−55°C ≤ T	A ≤ 125°C	
	Parameter	Conditions	• CC (V)	Min	Тур	Max	Min	Max	Min	Max	Uni
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 _{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	$\begin{array}{l} V_{IN} = V_{IH} \mbox{ or } V_{IL} \\ I_{OL} = 50 \ \mu A \\ I_{OL} = 50 \ \mu A \\ I_{OL} = 50 \ \mu A \\ I_{OL} = 4 \ m A \\ I_{OL} = 8 \ m A \end{array}$	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 0.4 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	μA
I _{OFF}	Power Off Leakage Current	V _{IN} = 5.5 V or V _{OUT} = 5.5 V	0.0	_	_	1.0	-	10	-	10	μA
I _{CC}	Quiescent Supply Current	V _{IN} = V _{CC} or GND	5.5			1.0		20		40	μA

DC ELECTRICAL CHARACTERISTICS (MC74VHC1G32)

DC ELECTRICAL CHARACTERISTICS (MC74VHC1GT32)

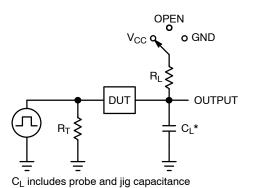
		Test	v _{cc}	٦	Γ _A = 25°	C	-40°C ≤	T _A ≤ 85°C	−55°C ≤ 1	Γ _A ≤ 125°C	
Symbol Paramete	Parameter	Conditions	(V)	Min	Тур	Max	Min	Max	Min	Max	Unit
VIH	High-Level Input		2.0	1.0			1.0		1.0		V
	Voltage		3.0	1.4			1.4		1.4		1
			4.5	2.0			2.0		2.0		1
			5.5	2.0			2.0		2.0		1
VIL	Low-Level Input		2.0			0.28		0.28		0.28	V
	Voltage		3.0			0.45		0.45		0.45	1
			4.5			0.8		0.8		0.8	1
			5.5			0.8		0.8		0.8	1
V _{OH}	High-Level Output Voltage	$\begin{array}{l} V_{IN} = V_{IH} \mbox{ or } V_{IL} \\ I_{OH} = -50 \ \mu A \\ I_{OH} = -50 \ \mu A \\ I_{OH} = -50 \ \mu A \\ I_{OH} = -4 \ m A \\ I_{OH} = -8 \ m A \end{array}$	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 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

AC ELECTRICAL CHARACTERISTICS

				T _A = 25°C		T _A = 25°C −40		Γ _A ≤ 85°C	–55°C ≤ T	_A ≤ 125°C	
Symbol	Parameter	Conditions	V _{CC} (V)	Min	Тур	Max	Min	Мах	Min	Мах	Unit
t _{PLH} ,	Propagation Delay,	C _L = 15 pF	3.0 to 3.6		4.8	7.9		9.5		11.5	ns
t _{PHL}	A to Y (Figures 3 and 4)	C _L = 50 pF			6.1	11.4		13.0		15.5	
		C _L = 15 pF	4.5 to 5.5		3.7	5.5		6.5		8.0	
		C _L = 50 pF			4.4	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

		Typical @ 25°C, V _{CC} = 5.0 V		l
C _{PD}	Power Dissipation Capacitance (Note 5)	8.0	рF	

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

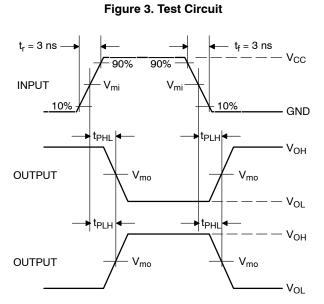


 R_T is Z_{OUT} of pulse generator (typically 50 Ω)

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



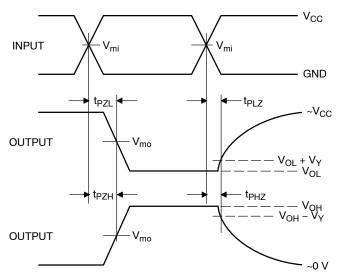


Figure 4. Switching Waveforms

		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 [†]
MC74VHC1G32DFT1G	SC-88A	V4	Q2	3000 / Tape & Reel
MC74VHC1G32DFT2G	SC-88A	V4	Q4	3000 / Tape & Reel
MC74VHC1G32DFT1G-Q* (Contact onsemi)	SC-88A	V4	Q2	3000 / Tape & Reel
MC74VHC1G32DFT2G-Q* (Contact onsemi)	SC-88A	V4	Q4	3000 / Tape & Reel
MC74VHC1GT32DFT1G (Contact onsemi)	SC-88A	VN	Q2	3000 / Tape & Reel
MC74VHC1GT32DFT2G (Contact onsemi)	SC-88A	VN	Q4	3000 / Tape & Reel
MC74VHC1GT32DFT2G-Q* (Contact onsemi)	SC-88A	VN	Q4	3000 / Tape & Reel
MC74VHC1GT32DFT1G-Q* (Contact onsemi)	SC-88A	VN	Q2	3000 / Tape & Reel
MC74VHC1G32DBVT1G	SC-74A	V4	Q4	3000 / Tape & Reel
MC74VHC1GT32DBVT1G	SC-74A	VN	Q4	3000 / Tape & Reel
MC74VHC1G32P5T5G	SOT-953	F	Q2	8000 / Tape & Reel
MC74VHC1GT32P5T5G	SOT-953	Q	Q2	8000 / Tape & Reel
MC74VHC1G32MU1TCG	UDFN6, 1.45 x 1.0, 0.5P	3 (Rotated 90° CW)	Q4	3000 / Tape & Reel
MC74VHC1GT32MU1TCG (Contact onsemi)	UDFN6, 1.45 x 1.0, 0.5P	T (Rotated 180° CW)	Q4	3000 / Tape & Reel
MC74VHC1G32MU2TCG	UDFN6, 1.2 x 1.0, 0.4P	3	Q4	3000 / Tape & Reel
MC74VHC1GT32MU2TCG (Contact onsemi)	UDFN6, 1.2 x 1.0, 0.4P	5	Q4	3000 / Tape & Reel
MC74VHC1G32MU3TCG	UDFN6, 1.0 x 1.0, 0.35P	F (Rotated 180° CW)	Q4	3000 / Tape & Reel
MC74VHC1GT32MU3TCG (Contact onsemi)	UDFN6, 1.0 x 1.0, 0.35P	Q	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.

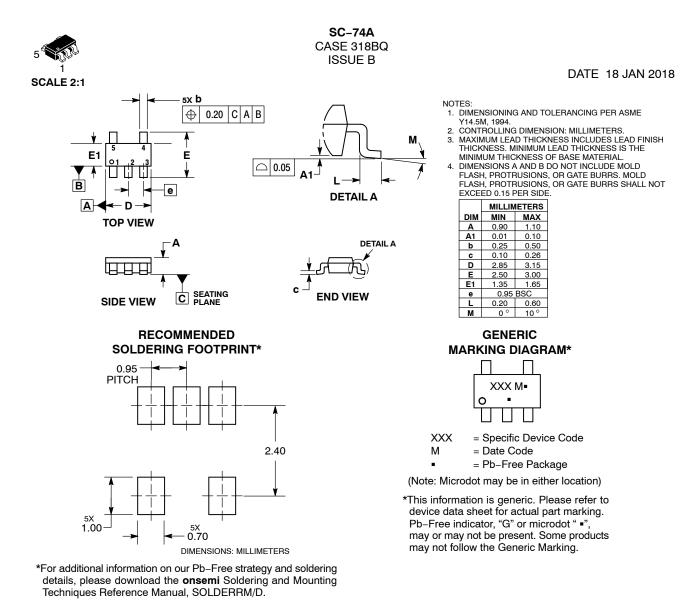
Pin 1 Orientation in Tape and Reel

Direction of Feed



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

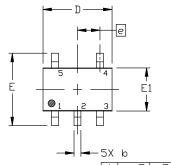
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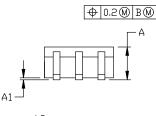
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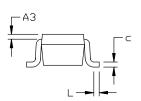
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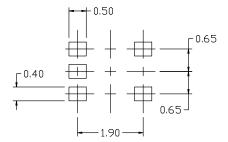
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DATE 11 APR 2023









RECOMMENDED Mounting footprint

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

DIM	MI	LLIMETE	RS	
DIM	MIN.	NDM.	MAX.	
Α	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	5'50	
E	2.00	2.10	5'50	
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)

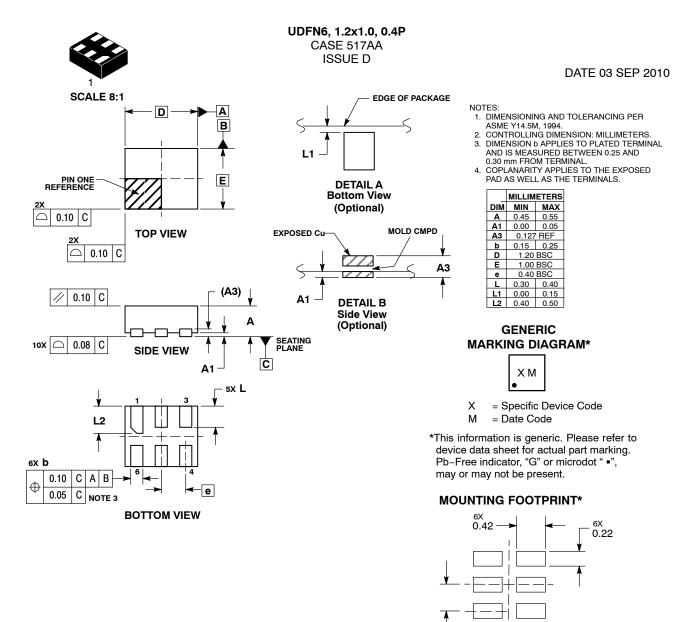
DESCRIPTION:	SC-88A (SC-70-		ns are uncontrolled except v	when stamped "CONTROLLED	
DOCUMENT NUMBER:	98ASB42984B			t when accessed directly from	
STYLE 6: PIN 1. EMITTER 2 2. BASE 2 3. EMITTER 1 4. COLLECTOR 5. COLLECTOR 2/BASE	STYLE 7: PIN 1. BASE 2. EMITTER 3. BASE 4. COLLECTOR 1 5. COLLECTOR	STYLE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

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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.

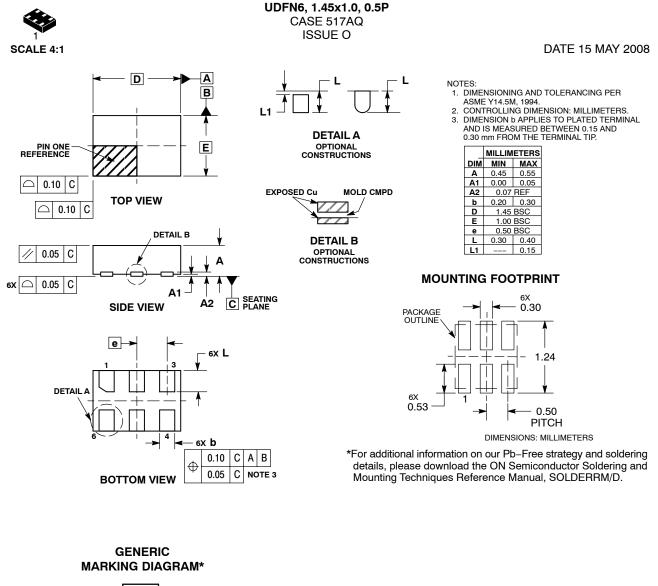
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PITCH

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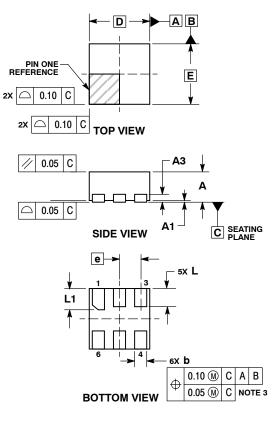
- X = Specific Device Code
- M = Date Code
- *This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot " •", may or may not be present.

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



SCALE 4:1



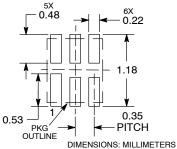
UDFN6, 1x1, 0.35P CASE 517BX **ISSUE O**

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.

BORH	BURRS AND MOLD FL				
	MILLIMETERS				
DIM	MIN	MIN MAX			
Α	0.45	0.55			
A1	0.00	0.00 0.05			
A3	0.13	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

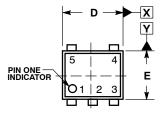
*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "•", may or may not be present. Some products may not follow the Generic Marking.

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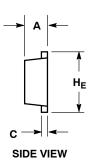
DISEM



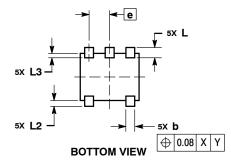
SCALE 4:1



TOP VIEW



SOT-953 CASE 527AE ISSUE E



GENERIC **MARKING DIAGRAM***



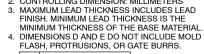
= Specific Device Code Х Μ = Month Code

*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.

DATE 02 AUG 2011

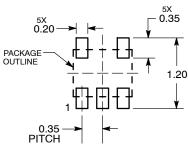
NOTES: 1. DIMENSIONING AND TOLERANCING PER ASME

Y14.5M, 1994. 2. CONTROLLING DIMENSION: MILLIMETERS З.



	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	
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	

RECOMMENDED SOLDERING FOOTPRINT*



DIMENSIONS: MILLIMETERS

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