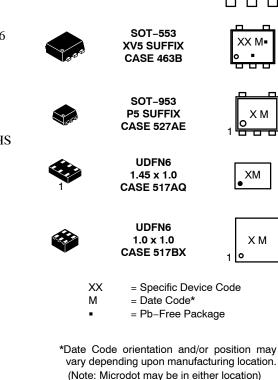
onsemi

Single 2-Input AND Gate MARKING DIAGRAMS **NL17SZ08** The NL17SZ08 is a single 2-input AND Gate in tiny footprint SC-88A XX M= DF SUFFIX packages. CASE 419A Features • Designed for 1.65 V to 5.5 V V_{CC} Operation • 2.7 ns t_{PD} at $V_{CC} = 5 V (typ)$ SC-74A XXX M **DBV SUFFIX** • Inputs/Outputs Overvoltage Tolerant up to 5.5 V CASE 318BQ • IOFF Supports Partial Power Down Protection Source/Sink 24 mA at 3.0 V SOT-553 • Available in SC-88A, SC-74A, SOT-553, SOT-953 and UDFN6 **XV5 SUFFIX** Packages CASE 463B • Chip Complexity < 100 FETs • NLV Prefix for Automotive and Other Applications Requiring SOT-953 Unique Site and Control Change Requirements; AEC-Q100 **P5 SUFFIX** Qualified and PPAP Capable CASE 527AE • These Devices are Pb-Free, Halogen Free/BFR Free and are RoHS Compliant UDFN6



Figure 1. Logic Symbol

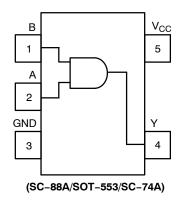


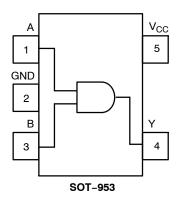
ORDERING INFORMATION

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

Semiconductor Components Industries, LLC, 2011 March, 2022 – Rev. 26

NL17SZ08





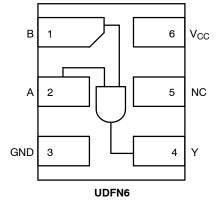


Figure 2. Pinout (Top View)

PIN ASSIGNMENT

(SC-88A/SOT-553/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

Ing	Output Y = AB	
Α	В	Y
L	L	L
L	Н	L
Н	L	L
н	Н	Н

MAXIMUM RATINGS

Symbol	CI	naracteristics	Value	Unit
V_{CC}	DC Supply Voltage	SC-88A (NLV) 2-74A, SC-88A, SOT-553, SOT-953, UDFN6	-0.5 to +7.0 -0.5 to +6.5	V
V _{IN}	DC Input Voltage	SC-88A (NLV) 2-74A, SC-88A, SOT-553, SOT-953, UDFN6	−0.5 to +7.0 −0.5 to +6.5	V
V _{OUT}	DC Output Voltage SC-88A (NLV)	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 +7.0 -0.5 to +7.0	V
	DC Output Voltage SC-74A, SC-88A, SOT-553, SOT-953, UDFN6	Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down 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	-50	mA
I _{OK}	DC Output Diode Current	V _{OUT} < GND	-50	mA
I _{OUT}	DC Output Source/Sink Current	±50	mA	
I _{CC} or I _{GND}	DC Supply Current per Supply Pin	±100	mA	
T _{STG}	Storage Temperature Range		-65 to +150	°C
ΤL	Lead Temperature, 1 mm from Ca	se 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	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.
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	Chara	Characteristics			
V _{CC}	Positive DC Supply Voltage		1.65	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	
T _A	Operating Temperature Range		-55	+125	°C
t _r , t _f	Input Rise and Fall Time 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, SOT-553, SOT-953, UDFN6	$\begin{array}{c} V_{CC} = 1.65 \ V \ to \ 1.95 \ V \\ V_{CC} = 2.3 \ V \ to \ 2.7 \ V \\ V_{CC} = 3.0 \ V \ to \ 3.6 \ V \\ V_{CC} = 4.5 \ V \ to \ 5.5 \ V \end{array}$	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

			Vcc	T	A = 25°	С	–55°C ≤ T	[′] A ≤ 125°C	
Symbol	Parameter	Condition	(V)	Min	Тур	Max	Min	Max	Units
VIH	High-Level Input		1.65 to 1.95	0.75 x V _{CC}	-	-	0.75 x V _{CC}	-	V
	Voltage (NLV)		2.3 to 5.5	0.70 x V _{CC}	-	-	0.70 x V _{CC}	_	1
	High-Level Input		1.65 to 1.95	0.65 x V _{CC}	-	-	0.65 x V _{CC}	-	V
	Voltage		2.3 to 5.5	$0.70 \times V_{CC}$	-	-	$0.70 \times V_{CC}$	-	
V _{IL}	Low-Level Input		1.65 to 1.95	-	-	$0.25 \times V_{CC}$	-	$0.25 \times V_{CC}$	V
	Voltage (NLV)		2.3 to 5.5	-	-	$0.30 \times V_{CC}$	-	$0.30 \times V_{CC}$	
	Low-Level Input		1.65 to 1.95	-	-	$0.35 \times V_{CC}$	-	$0.35 \times V_{CC}$	V
	Voltage		2.3 to 5.5	-	-	$0.30 \times V_{CC}$	-	$0.30 \times V_{CC}$	
V _{OH}	High-Level Output Voltage	$\begin{array}{l} V_{IN} = V_{IH} \ \text{or} \ V_{IL} \\ I_{OH} = -100 \ \mu\text{A} \\ I_{OH} = -4 \ \text{mA} \\ I_{OH} = -8 \ \text{mA} \\ I_{OH} = -12 \ \text{mA} \\ I_{OH} = -16 \ \text{mA} \\ I_{OH} = -24 \ \text{mA} \\ I_{OH} = -32 \ \text{mA} \end{array}$	1.65 to 5.5 1.65 2.3 2.7 3.0 3.0 4.5	V _{CC} - 0.1 1.29 1.9 2.2 2.4 2.3 3.8	V _{CC} 1.4 2.1 2.4 2.7 2.5 4.0	- - - - -	V _{CC} - 0.1 1.29 2.2 2.4 2.3 3.8		V
V _{OL}	Low-Level Output Voltage		1.65 to 5.5 1.65 2.3 2.7 3.0 3.0 4.5		- 0.08 0.2 0.22 0.28 0.38 0.38	0.1 0.24 0.3 0.4 0.4 0.55 0.55		0.1 0.24 0.3 0.4 0.4 0.55 0.55	V
I _{IN}	Input Leakage Cur- rent	V _{IN} = 5.5 V or GND	1.65 to 5.5	-	-	±0.1	-	±1.0	μΑ
I _{OFF}	Power Off Leakage Current	V _{IN} = 5.5 V or V _{OUT} = 5.5 V	0	-	-	1.0	-	10	μΑ
ICC	Quiescent Supply Current	$V_{IN} = V_{CC}$ or GND	5.5	-	-	1.0	-	10	μA

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.

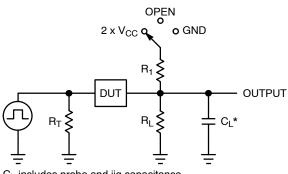
AC ELECTRICAL CHARACTERISTICS

			$V_{CC} \qquad T_{A} = 25^{\circ}C \qquad -55^{\circ}C \le T_{A} \le 125^{\circ}C$			ղ ≤ 125°C			
Symbol	Parameter	Condition	(V)	Min	Тур	Max	Min	Max	Units
t _{₽LH} ,	Propagation Delay, A to Y	R_L = 1 M Ω , C_L = 15 pF	1.65 to 1.95	-	6.3	12	-	12.7	ns
t _{PHL}	(Figures 3 and 4)	R_L = 1 M Ω , C_L = 15 pF	2.3 to 2.7	-	3.4	7.0	-	7.5	
		R_L = 1 MΩ, C_L = 15 pF	3.0 to 3.6	-	2.6	4.7	-	5.0	
		$R_L = 500 \ \Omega$, $C_L = 50 \ pF$		-	3.3	5.2	-	5.5	
		R_L = 1 MΩ, C_L = 15 pF	4.5 to 5.5	-	2.2	4.1	-	4.4	
		$R_L = 500 \ \Omega, \ C_L = 50 \ pF$		_	2.7	4.5	-	4.8	

CAPACITIVE CHARACTERISTICS

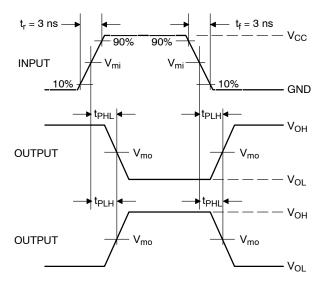
Symbol	Parameter	Condition	Typical	Units
C _{IN}	Input Capacitance	V_{CC} = 5.5 V, V_{IN} = 0 V or V_{CC}	2.5	pF
C _{OUT}	Output Capacitance	V_{CC} = 5.5 V, V_{IN} = 0 V or V_{CC}	2.5	pF
C _{PD}	Power Dissipation Capacitance (Note 5)	10 MHz, V _{CC} = 3.3 V, V _{IN} = 0 V or V _{CC} 10 MHz, V _{CC} = 5.5 V, V _{IN} = 0 V or V _{CC}	9 11	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; $P_D = C_{PD} \bullet V_{CC}^2 \bullet f_{in} + I_{CC} \bullet V_{CC}$.



 C_L includes probe and jig capacitance R_T is Z_{OUT} of pulse generator (typically 50 Ω) f = 1 MHz

Figure 3. Test Circuit



Switch Position	C _L , pF	R_{L}, Ω	R ₁ , Ω
Open	See AC Character	istics Tat	ble
$2 \times V_{CC}$	50	500	500
GND	50	500	500
	Position Open 2 x V _{CC}	Position See AC Character Open See AC Character 2 x V _{CC} 50	Position See AC Characteristics Tat 0pen See AC Characteristics Tat 2 x V _{CC} 50

X = Don't Care

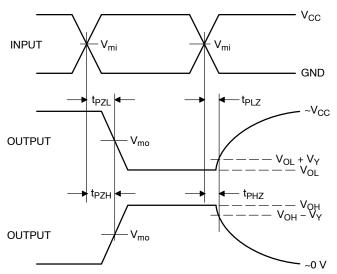


Figure 4. Switching Waveforms

		Vm		
V _{CC} , V	V _{mi} , V	t _{PLH} , t _{PHL}	t _{PZL} , t _{PLZ} , t _{PZH} , t _{PHZ}	V _Y , V
1.65 to 1.95	V _{CC} /2	V _{CC} /2	V _{CC} /2	0.15
2.3 to 2.7	V _{CC} /2	V _{CC} /2	V _{CC} /2	0.15
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

DEVICE ORDERING INFORMATION

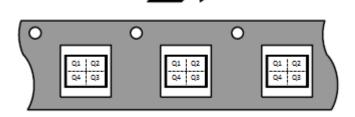
Device	Packages	Specific Device Code	Pin 1 Orientation (See below)	Shipping [†]
NL17SZ08DFT2G	SC-88A	L2	Q4	3000 / Tape & Reel
NLV17SZ08DFT2G*	SC-88A	L2	Q4	3000 / Tape & Reel
NL17SZ08DFT2G-F22038**	SC-88A	L2	Q4	3000 / Tape & Reel
NL17SZ08DBVT1G	SC-74A	AH	Q4	3000 / Tape & Reel
NL17SZ08XV5T2G	SOT-553	L2	Q4	4000 / Tape & Reel
NL17SZ08P5T5G	SOT-953	E (Rotated 180° CW)	Q2	8000 / Tape & Reel
NL17SZ08MU1TCG	UDFN6, 1.45 x 1.0, 0.5P	D (Rotated 180° CW)	Q4	3000 / Tape & Reel
NL17SZ08MU3TCG	UDFN6, 1.0 x 1.0, 0.35P	P (Rotated 180° CW)	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.

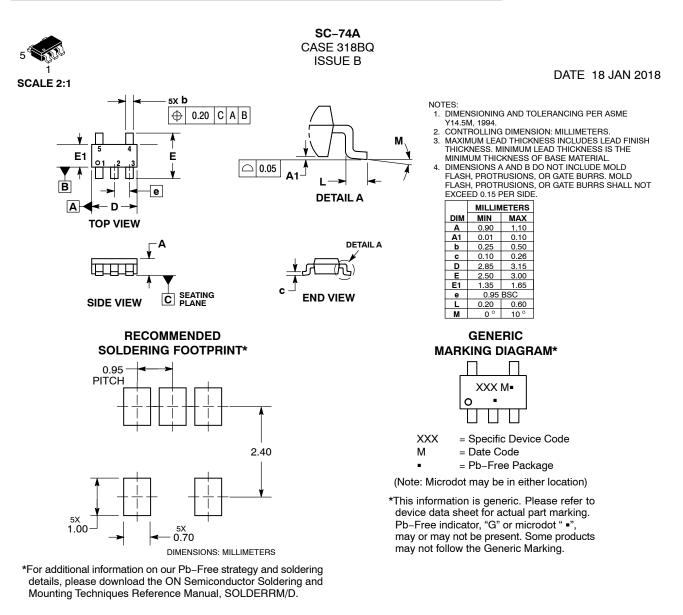
*NLV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q100 Qualified and PPAP Capable. ** Please refer to NLV specifications for this device.

Pin 1 Orientation in Tape and Reel

Direction of Feed







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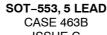
DOCUMENT NUMBER:	98ASB42984B	8ASB42984B Electronic versions are uncontrolled except when accessed directly from the Document Repository. Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.			
DESCRIPTION:	SC-88A (SC-70-5/SOT-35	SC-88A (SC-70-5/SOT-353)			

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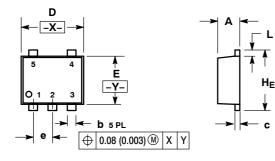




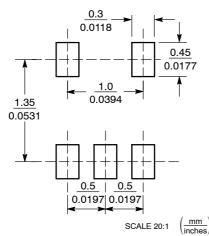
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ISSUE C



RECOMMENDED **SOLDERING FOOTPRINT***



NOTES:

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.

	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

GENERIC **MARKING DIAGRAM***

XXM-

XX = Specific Device Code M = Date Code

= 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.

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

STYLE 1:	STYLE 2:	STYLE 3:	STYLE 4:	STYLE 5:
PIN 1. BASE	PIN 1. CATHODE	PIN 1. ANODE 1	PIN 1. SOURCE 1	PIN 1. ANODE
2. EMITTER	2. COMMON ANODE	2. N/C	2. DRAIN 1/2	2. EMITTER
3. BASE	3. CATHODE 2	3. ANODE 2	3. SOURCE 1	3. BASE
4. COLLECTOR	4. CATHODE 3	4. CATHODE 2	4. GATE 1	4. COLLECTOR
5. COLLECTOR	5. CATHODE 4	5. CATHODE 1	5. GATE 2	5. CATHODE
STYLE 6:	STYLE 7:	STYLE 8:	STYLE 9:	
PIN 1. EMITTER 2	PIN 1. BASE	PIN 1. CATHODE	PIN 1. ANODE	
2. BASE 2	2. EMITER	2. COLLECTOR	2. CATHODE	
3. EMITTER 1	3. BASE	3. N/C	3. ANODE	
4. COLLECTOR 1	4. COLLECTOR	4. BASE	4. ANODE	
5. COLLECTOR 2/BASE 1	5. COLLECTOR	5. EMITTER	5. ANODE	

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STATUS:	ON SEMICONDUCTOR STANDARD		
NEW STANDARD:			
DESCRIPTION:	SOT-553, 5 LEAD		PAGE 1 OF 2



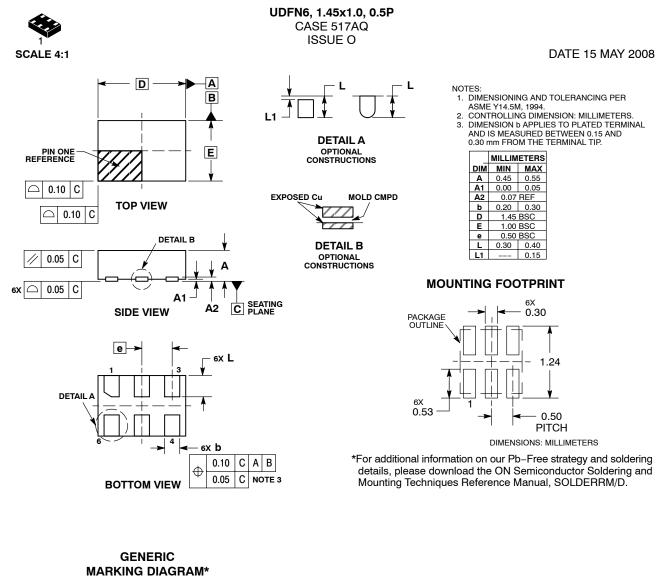
DOCUMENT NUMBER: 98AON11127D

PAGE 2 OF 2

ISSUE	REVISION	DATE
Α	ADDED STYLES 3–9. REQ. BY D. BARLOW	11 NOV 2003
В	ADDED NOMINAL VALUES AND UPDATED GENERIC MARKING DIAGRAM. REQ. BY HONG XIAO	27 MAY 2005
С	UPDATED DIMENSIONS D, E, AND HE. REQ. BY J. LETTERMAN.	20 MAR 2013

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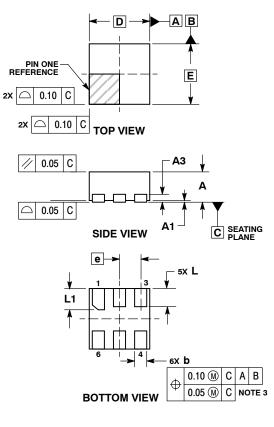
- X = Specific Device Code
- M = Date Code
- *This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot " •", may or may not be present.

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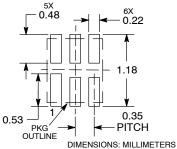
UDFN6, 1x1, 0.35P CASE 517BX **ISSUE O**

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				
	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			
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

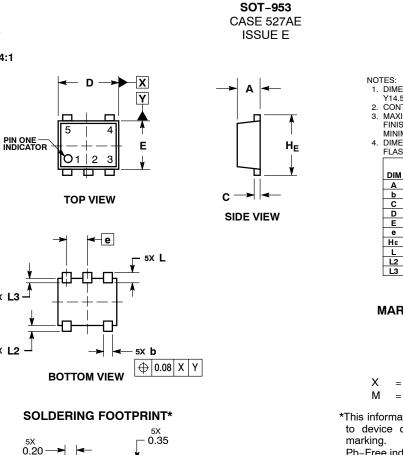
5X L3

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

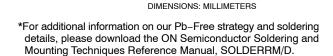
GENERIC **MARKING DIAGRAM***

= 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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