onsemi

Single 2-Input NAND Gate

NLV74VHC1G00, NLV74VHC1GT00

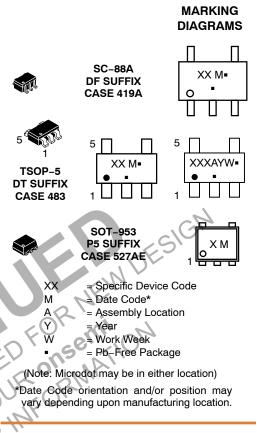
The NLV74VHC1G00 / NLV74VHC1GT00 is a 2-input NAND gate in tiny footprint packages. The NLV74VHC1G00 has CMOS-level input thresholds while the NLV74VHC1GT00 has TTL-level input thresholds.

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

- $\bullet\,$ 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, TSOP-5, and SOT-953 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



ORDERING INFORMATION

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

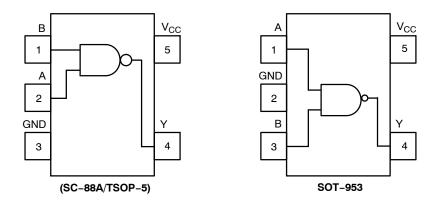


Figure 2. Pinout (Top View)

PIN ASSIGNMENT (SC-88A/TSOP-5)

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

SC-88A/TSOP-5)	PIN ASSIGNME	NT (SOT–953)	FUNCTION TAB
Pin	Function	Pin	Function	Input
1	В	1	A	Α
2	A	2	GND	L
3	GND	3	В	PL
4	Y	4	Y	Н
5	V _{CC}	5	V _{CC}	GB O
THIS	DEVICEPI	3 4 5	MMENDUR ACTORIN	FORMA

FUNCTION TABLE							
Inp	ut S	Output					
A	B	Y					
L		Н					
N	Н	Н					
Н	lt-	Н					
в	Он	L					

MAXIMUM RATINGS

Symbol	c	haracteristics	Value	Unit
V _{CC}	DC Supply Voltage		-0.5 to +7.0	V
V _{IN}	DC Input Voltage	–0.5 to +7.0	V	
V _{OUT}	T DC Output Voltage 1Gxx		–0.5 to V _{CC} + 0.5	V
		1GTxx 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	
Ι _{ΙΚ}	DC Input Diode Current	V _{IN} < GND	-20	mA
I _{OK}	DC Output Diode Current	1Gxx $V_{OUT} > V_{CC}, V_{OUT} < GND$	±20	mA
		1GTxx V _{OUT} < GND	-20	
I _{OUT}	DC Output Source/Sink Current		±25	mA
I _{CC} or I _{GND}	DC Supply Current per Supply Pi	n or Ground Pin	±50	mA
T _{STG}	Storage Temperature Range		-65 to +150	∕ °C
ΤL	Lead Temperature, 1 mm from Ca	ase for 10 secs	260	°C
TJ	Junction Temperature Under Bias		+150	°C
θ_{JA}	Thermal Resistance (Note 2)	SC-88A TSOP-5 SOT-953	377 320 254	°C/W
P _D	Power Dissipation in Still Air	SC-88A TSOP-5 SOT-953	semi 332 390 491	mW
MSL	Moisture Sensitivity	DE O	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)	FULLON	±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	c c	haracteristics	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	1Gxx	0	V _{CC}	V
		1GTxx 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	V _{CC} = 3.0 V to 3.6 V V _{CC} = 4.5 V to 5.5 V	0 0	100 20	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.

		Test	v _{cc}	٦	A = 25°	С	-40°C ≤ 1	Γ _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	1.5	-	-	1.5	-	1.5	-	V
	Voltage		3.0	2.1	1	-	2.1	-	2.1	-	
			4.5	3.15	1	1	3.15	-	3.15	-	
			5.5	3.85	I	1	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	GN	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 0.1 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	104	±1.0	μΑ
I _{OFF}	Power Off Leakage Current	V _{IN} = 5.5 V	0.0	-		1.0	RO	210 K	-	10	μΑ
I _{CC}	Quiescent Supply Current	V _{IN} = V _{CC} or GND	5.5		Veur	110	NFC	20	-	40	μA

DC ELECTRICAL CHARACTERISTICS (NLV74VHC1G00)

THE VCC OF 5.5 - 14 1/0 THE VCC OF 5.5 - 14 1/0 THIS DEVICE RESEARCH AT A CONTRESS OF THE O

DC ELECTRICAL CHARACTERISTICS (NLV74VHC1GT00)

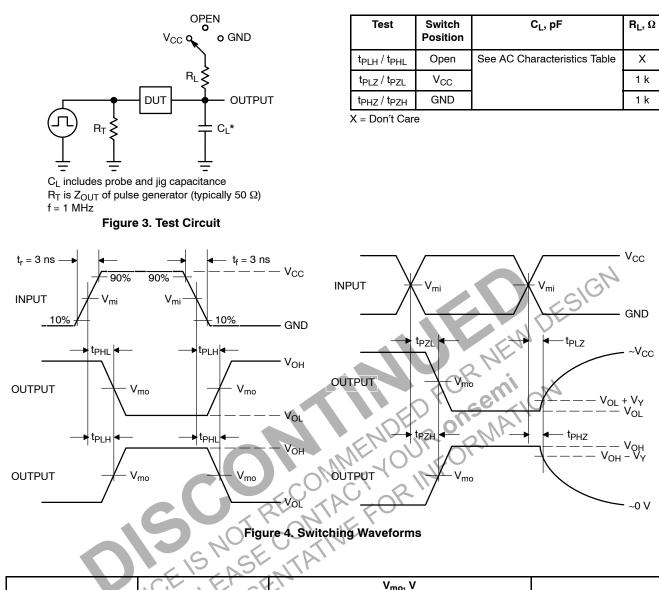
		Test	V _{cc}	٦	A = 25°	C	-40°C ≤ 1	Γ _A ≤ 85°C	-55°C ≤ T	_A ≤ 125°C	
Symbol	Parameter	Conditions	(V)	Min	Тур	Max	Min	Max	Min	Max	Unit
V _{IH}	High-Level Input		2.0	1.0	-	-	1.0	-	1.0	-	V
Vo	Voltage		3.0	1.4	-	-	1.4	-	1.4	-	
			4.5	2.0	-	-	2.0	-	2.0	-	
			5.5	2.0	-	-	2.0	-	2.0	-	
VIL	Low-Level Input		2.0	-	-	0.28	-	0.28	-	0.28	V
	Voltage		3.0	-	-	0.45	-	0.45	-	0.45	
			4.5	-	-	0.8	-	0.8	-	0.8	
			5.5	-	-	0.8	-	0.8	-	0.8	
V _{OH}	High-Level Output Voltage	$\begin{array}{l} V_{IN} = V_{IH} \text{ or } V_{IL} \\ I_{OH} = -50 \ \mu\text{A} \\ I_{OH} = -50 \ \mu\text{A} \\ I_{OH} = -50 \ \mu\text{A} \\ I_{OH} = -4 \ \text{mA} \\ I_{OH} = -8 \ \text{mA} \end{array}$	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	<u>-</u> IGN	V
V _{OL}	Low-Level Output Voltage	$ \begin{array}{l} V_{IN} = V_{IH} \text{ or } V_{IL} \\ I_{OL} = 50 \ \mu\text{A} \\ I_{OL} = 50 \ \mu\text{A} \\ I_{OL} = 50 \ \mu\text{A} \\ I_{OL} = 4 \ \text{mA} \\ I_{OL} = 8 \ \text{mA} \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	1 - 1	0.1 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	104	±1.0	μΑ
I _{OFF}	Power Off Leakage Current	V _{IN} = 5.5 V or V _{OUT} = 5.5 V	0	-		1.0	RO	10	-	10	μΑ
I _{CC}	Quiescent Supply Current	V _{IN} = V _{CC} or GND	5.5		Vby,	10	NF	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	N	A	1.35	-	1.5	-	1.65	mA

AC ELECTRICAL CHARACTERISTICS

		F	CEN	Ţ	_A = 25°	C	-40°C ≤ 1	Γ _Α ≤ 85°C	–55°C ≤ T	A ≤ 125°C	
Symbol	Parameter	Conditions	Vcc (V)	Min	Тур	Max	Min	Max	Min	Мах	Unit
t _{PLH} ,	Propagation Delay,	C _L = 15 pF	3.0 to 3.6	-	4.5	7.9	-	9.5	-	11.0	ns
t _{PHL}	(A or B) to Y (Figures 3 and 4)	C _L = 50 pF		-	5.6	11.4	-	13.0	-	15.5	
~		C _L = 15 pF	4.5 to 5.5	-	3.0	5.5	-	6.5	-	8.0	
		C _L = 50 pF		-	3.8	7.5	-	8.5	-	10.0	
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

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



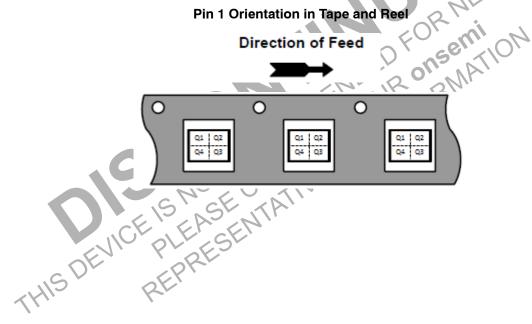
	NCENEL GE	V _m	_o , V	
V _{CC} , V	V _{mi} , V	t _{PLH} , t _{PHL}	t _{PZL} , t _{PLZ} , t _{PZH} , t _{PHZ}	V _Y , V
3.0 to 3.6	V _{CC} /2	V _{CC} /2	V _{CC} /2	0.3
4.5 to 5.5	V _{CC} /2	V _{CC} /2	V _{CC} /2	0.3

ORDERING INFORMATION

Device	Packages	Specific Device Code	Pin 1 Orientation (See below)	Shipping [†]
MC74VHC1G00DFT2G-L22038	SC-88A	V1	Q4	3000 / Tape & Reel
NLVVHC1G00DFT1G*	SC-88A	V1	Q2	3000 / Tape & Reel
NLVVHC1G00DFT2G*	SC-88A	V1	Q4	3000 / Tape & Reel
M74VHC1GT00DFT1G-L22038	SC-88A	VH	Q2	3000 / Tape & Reel
M74VHC1GT00DFT2G-L22038	SC-88A	VH	Q4	3000 / Tape & Reel
NLVVHC1GT00DFT2G*	SC-88A	VH	Q4	3000 / Tape & Reel
MC74VHC1G00DTT1G	TSOP-5	V1	Q4	3000 / Tape & Reel
NLVVHC1G00DTT1G*	TSOP-5	V1	Q4	3000 / Tape & Reel
M74VHC1GT00DTT1G	TSOP-5	VH	Q4	3000 / Tape & Reel
MC74VHC1G00P5T5G-L22088	SOT-953	А	Q2	8000 / Tape & Reel
MC74VHC1GT00P5T5G-L22088	SOT-953	К	Q2	8000 / 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.



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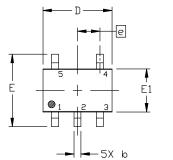
SC-88A (SC-70-5/SOT-353) CASE 419A-02 **ISSUE M**

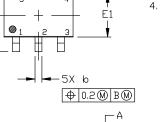
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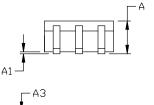
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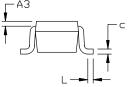
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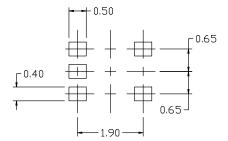
DATE 11 APR 2023











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	MI	LLIMETE	RS
MIU	MIN.	NDM.	MAX.
A	0.80	0.95	1.10
A1			0.10
A3		0.20 REF	-
b	0.10	0.20	0.30
С	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 BSI	С
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 DBSOLETE, 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.

XXX = Specific Device Code

Μ = Date Code = Pb-Free Package

(Note: Microdot may be in either location)

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 ANOD 3. CATHODE 2 4. CATHODE 3 5. CATHODE 4	E
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 to out in the datasheet r datasheet pinout or p	ype is not called efer to the device
DOCUMENT NUMBER:	98ASB42984B	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-353)				PAGE 1 OF 1

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MECHANICAL CASE OUTLINE PACKAGE DIMENSIONS

TSOP-5 3.00x1.50x0.95, 0.95P **CASE 483** ISSUE P DATE 01 APR 2024 NOTES: 5X b 0.20 C A B DIMENSIONING AND TOLERANCING CONFORM TO ASME NOTE 5 1. Y14.5-2018. ALL DIMENSION ARE IN MILLIMETERS (ANGLES IN DEGREES). MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH THICKNESS. 2. В 3. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL. E1 4. DIMENSIONS D AND E1 DO NOT INCLUDE MOLD FLASH, PROTRUSIONS OF GATE BURRS. MOLD FLASH, PROTRUSIONS, OR GATE BURRS SHALL NOT EXCEED 0.15 PER SIDE. DIMENSION D. 5 OPTIONAL CONSTRUCTION: AN ADDITIONAL TRIMMED LEAD IS PIN 1 ALLOWED IN THIS LOCATION. TRIMMED LEAD NOT TO EXTEND IDENTIFIER MORE THAN 0.2 FROM BODY. le A MILLIMETERS DIM NOM. TOP VIEW MIN. MAX 0.900 1.000 1.100 DETAIL A А (A2) A1 0.010 0.055 0.100 Α2 0.950 REF 0.250 0.375 0.500 h 0.100 0.180 0.260 с 0.05 C SEATING 2.850 D 3.000 3.150 Ċ A1 PLANE END VIEW SIDE VIEW Ε 2.500 2.750 3.000 1.350 E1 1.500 1.650 0.950 BSC е 0.250 GAUGE 0.400 L 0.200 0.600 0° 5° 10° Θ 1.900Ð 0.950 "A DETAIL SCALE 2:1 GENERIC **MARKING DIAGRAM*** 2.400 5 5 XXXAYW= XXX M= 1.000 1 0.700Analog Discrete/Logic RECOMMENDED MOUNTING FOOTPRINT* XXX = Specific Device Code XXX = Specific Device Code FOR ADDITIONAL INFORMATION ON OUR Pb-FREE А = Assembly Location Μ = Date Code STRATEGY AND SOLDERING DETAILS, PLEASE DOWNLOAD = Pb-Free Package v = Year THE ON SEMICONDUCTOR SOLDERING AND MOUNTING W = Work Week 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: 98ARB18753C Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red. **DESCRIPTION:** TSOP-5 3.00x1.50x0.95, 0.95P PAGE 1 OF 1 onsemi and ONSEMI are trademarks of Semiconductor Components Industries, LLC dba onsemi or its subsidiaries in the United States and/or other countries. onsemi reserves the right to make changes without further notice to any products herein. onsemi makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does onsemi assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. onsemi does not convey any license under its patent rights nor the rights of others.

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MECHANICAL CASE OUTLINE PACKAGE DIMENSIONS



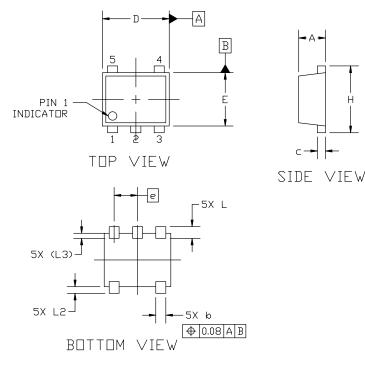
SOT-953 1.00x0.80x0.37, 0.35P CASE 527AE ISSUE F

DATE 17 JAN 2024

DURSEM

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*

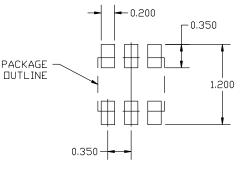


- X = Specific Device Code M = Month Code
- *This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "•", may or may not be present. Some products may not follow the Generic Marking.

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DESCRIPTION:	SOT-953 1.00x0.80x0.37, 0.35P		PAGE 1 OF 9		
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MILLIMETERS					
DIM	MIN	NDM	MAX		
А	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		
L	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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