

Single Inverter NLV17SZ04

The NLV17SZ04 is an inverter in tiny footprint packages.

SC-88A **DF SUFFIX** CASE 419A



MARKING

Features

- Designed for 1.65 V to 5.5 V V_{CC} Operation
- 2.4 ns t_{PD} at $V_{CC} = 5 \text{ V (typ)}$
- Inputs/Outputs Overvoltage Tolerant up to 5.5 V
- I_{OFF} Supports Partial Power Down Protection
- Source/Sink 24 mA at 3.0 V
- Available in SC-88A, SOT-553 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



SOT-553 **XV5 SUFFIX CASE 463B**





SOT-953 P5 SUFFIX CASE 527AE

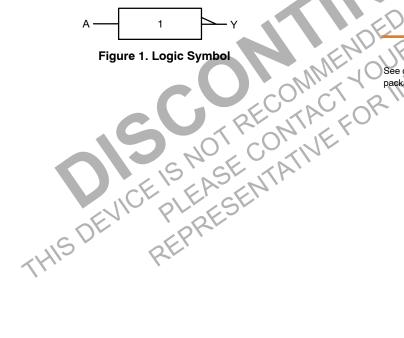


- Date Code*

= Pb-Free Package

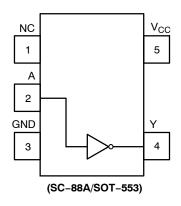
(Note: Microdot may be in either location) *Date Code orientation and/or position may vary depending upon manufacturing location.

Specific Device Code



ORDERING INFORMATION

See detailed ordering, marking and shipping information in the package dimensions section on page 6 of this data sheet.



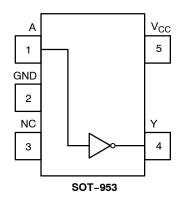


Figure 2. Pinout (Top View)

PIN ASSIGNMENT

(SC-88A/SOT-553)

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

PIN ASSIGNMENT (SOT-953)

Pin	Function		Pin	Function		Input	10	7/2
1	NC NC		1	A		A	7	
2	А		2	GND		LV		
3	GND		3	NC		NH		
4	Y		4	Y	OK	in		
5	V _{CC}		5	Vcc	Y	GLI, 'C		
THIS	DEVICE PL	N/A/E/P	O RECONTACT ASENTATI	Voc NNEWOUR ACTORIN	FOR			

FUNCTION TABLE

Input	Output		
A	Y		
10	Н		
NA	L		

MAXIMUM RATINGS

Symbol	Characteristics	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}	DC Output Voltage Active–Mode (High or Low Stat Tri–State Mode (Note Power–Down Mode (V $_{\rm CC}$ = 0 V	1) -0.5 to +7.0	V
	DC Output Voltage (NL17SZ04P5T5G-L22088 Onl	y) -0.5 to V _{CC} + 0.5	
I _{IK}	DC Input Diode Current V _{IN} < GN	D -50	mA
l _{ok}	DC Output Diode Current V _{OUT} < GN	D –50	mA
	DC Output Diode Current (NL17SZ04P5T5G-L22088 Onl	y) ±50	
l _{out}	DC Output Source/Sink Current	±50	mA
I _{CC} or I _{GND}	DC Supply Current per Supply Pin or Ground Pin	±100	mA
T _{STG}	Storage Temperature Range	-65 to +150	J °C
T_L	Lead Temperature, 1 mm from Case for 10 secs	260	°C
T_J	Junction Temperature Under Bias	+150	°C
θJA	Thermal Resistance (Note 2) SC-88 SOT-58 SOT-98	324	°C/W
P _D	Power Dissipation in Still Air SC-88 SOT-55 SOT-96	386	mW
MSL	Moisture Sensitivity	Level 1	ı
F _R	Flammability Rating Oxygen Index: 28 to 3	34 UL 94 V-0 @ 0.125 in	-
V _{ESD}	ESD Withstand Voltage (Note 3) Charged Device Mod	el 2000 el 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	1.65	5.5	V
V _{IN}	DC Input Voltage	0	5.5	٧
V _{OUT}	DC Output Voltage Active-Mode (High of Tri-State Mode) Power-Down Mode	lode (Note 1) 0	V _{CC} 5.5 5.5	V
	DC Output Voltage (NL17SZ04P5T5G-I	_22088 Only) 0	V _{CC}	
T _A	Operating Temperature Range	-55	+125	°C
t _r , t _f	Input Rise and Fall Time $V_{CC} = 3$ $V_{CC} = 4$	3.0 V to 3.6 V 0 4.5 V to 5.5 V 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.

DC ELECTRICAL CHARACTERISTICS

				T	_A = 25°	С	–55°C ≤ T	A ≤ 125°C	
Symbol	Parameter	Condition	V _{CC} (V)	Min	Тур	Max	Min	Max	Units
V _{IH}	High-Level Input		1.65 to 1.95	0.75 x V _{CC}	-	_	0.75 x V _{CC}	-	V
	Voltage		2.3 to 5.5	0.70 x V _{CC}	-	-	0.70 x V _{CC}	_	
V_{IL}	Low-Level Input		1.65 to 1.95	-	-	0.25 x V _{CC}	-	0.25 x V _{CC}	V
	Voltage		2.3 to 5.5	-	-	0.30 x V _{CC}	-	0.30 x V _{CC}	
V _{ОН}	High-Level Output Voltage	$\begin{split} &V_{IN} = V_{IH} \text{ or } V_{IL} \\ &I_{OH} = -100 \mu\text{A} \\ &I_{OH} = -4 \text{ mA} \\ &I_{OH} = -8 \text{ mA} \\ &I_{OH} = -12 \text{ mA} \\ &I_{OH} = -16 \text{ mA} \\ &I_{OH} = -24 \text{ mA} \\ &I_{OH} = -32 \text{ mA} \end{split}$	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 1.9 2.2 2.4 2.3 3.8	- - - - -	V
V _{OL}	Low-Level Output Voltage	$\begin{split} V_{IN} &= V_{IH} \text{ or } V_{IL} \\ I_{OL} &= 100 \mu\text{A} \\ I_{OL} &= 4 \text{ mA} \\ I_{OL} &= 8 \text{ mA} \\ I_{OL} &= 12 \text{ mA} \\ I_{OL} &= 16 \text{ mA} \\ I_{OL} &= 24 \text{ mA} \\ I_{OL} &= 32 \text{ mA} \end{split}$	1.65 to 5.5 1.65 2.3 2.7 3.0 3.0 4.5	1 1 1 1 1	- 0.08 0.2 0.22 0.28 0.38 0.42	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	>
I _{IN}	Input Leakage Current	V _{IN} = 5.5 V or GND	1.65 to 5.5	Ī		±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	10N	10	μΑ
	Power Off Leakage Current (NL17SZ04P5T5G– L22088 Only)	V _{IN} = 5.5 V	0	MENC	NIF	01.03 M	\\ \(\) \(10	μΑ
Icc	Quiescent Supply Current	V _{IN} = V _{CC} or GND	5.5		2 11	1.0	-	10	μΑ

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.

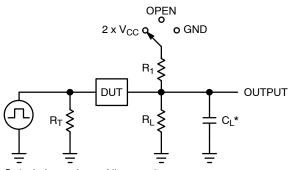
AC ELECTRICAL CHARACTERISTICS

	LI DO MI		V _{CC}	T _A = 25°C			-55°C ≤ T _A ≤ 125°C		
Symbol	Parameter	Condition	(V)	Min	Тур	Max	Min	Max	Units
t _{PLH,} Propagation Delay, A to Y	$R_L = 1 M\Omega$, $C_L = 15 pF$	1.65 to 1.95	-	5.3	11.4	-	12.0	ns	
t _{PHL}	(Figures 3 and 4)	$R_L = 1 M\Omega$, $C_L = 15 pF$	2.3 to 2.7	-	3.5	6.5	ı	7.0	
_	HIS R	$R_L = 1 M\Omega$, $C_L = 15 pF$	3.0 to 3.6	-	2.1	4.5	-	4.7	
	,	$R_L = 500 \Omega, C_L = 50 pF$		_	2.9	5.2	-	5.5	
		$R_L = 1 \text{ M}\Omega$, $C_L = 15 \text{ pF}$	4.5 to 5.5	-	1.8	3.9	_	4.1	
		$R_L = 500 \Omega, C_L = 50 pF$		-	2.4	4.3	-	4.5	

CAPACITIVE CHARACTERISTICS

Symbol	Parameter	Condition	Typical	Units
C _{IN}	Input Capacitance	$V_{CC} = 5.5 \text{ V}, V_{IN} = 0 \text{ V or } V_{CC}$	2.5	pF
C _{OUT}	Output Capacitance	$V_{CC} = 5.5 \text{ V}, V_{IN} = 0 \text{ V or } V_{CC}$	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	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; $P_D = C_{PD} \bullet V_{CC}^2 \bullet f_{in} + I_{CC} \bullet V_{CC}$.



Test	Switch Position	C _L , pF	R_L, Ω	R ₁ , Ω	
t _{PLH} / t _{PHL}	Open	See AC Characteristics Table			
t _{PLZ} / t _{PZL}	2 x V _{CC}	50	500	500	
t _{PHZ} / t _{PZH}	GND	50	500	500	

X = Don't Care

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

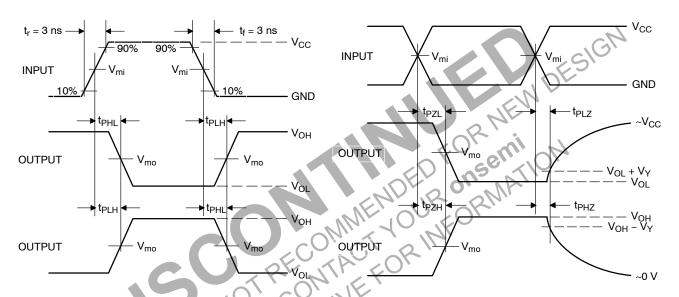


Figure 4. Switching Waveforms

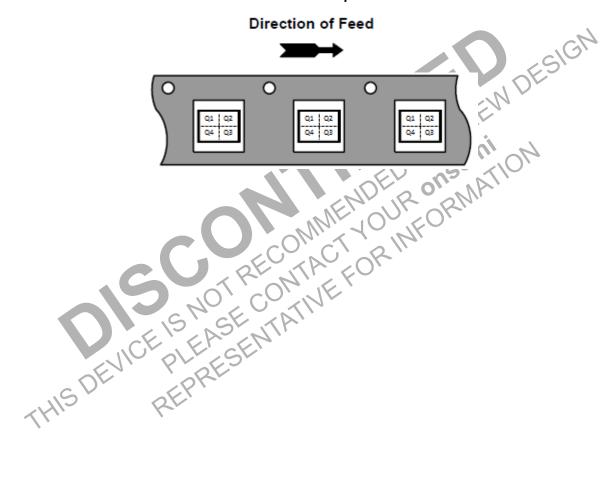
100000		V _m	, V	
V _{CC} , V	V _{mir} V	t _{PLH} , t _{PHL}	$t_{PZL}, t_{PLZ}, t_{PZH}, t_{PHZ}$	V _Y , V
1.65 to 1.95	V _{CC} /2	V _{CC} /2	V _{CC} /2	0.15
2.3 to 2.7	V _{CC} /2	V _{CC} /2	V _{CC} /2	0.15
3.0 to 3.6	V _{CC} /2	V _{CC} /2	V _{CC} /2	0.3
4.5 to 5.5	V _{CC} /2	V _{CC} /2	V _{CC} /2	0.3

DEVICE ORDERING INFORMATION

Device	Packages	Specific Device Code	Pin 1 Orientation (See below)	Shipping [†]
NL17SZ04DFT2G-L22038	SC-88A	L5	Q4	3000 / Tape & Reel
NLV17SZ04DFT2G*	SC-88A	L5	Q4	3000 / Tape & Reel
NL17SZ04XV5T2G-L22087	SOT-553	L5	Q4	4000 / Tape & Reel
NL17SZ04P5T5G-L22088	SOT-953	5 (Rotated 90° CW)	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.

Pin 1 Orientation in Tape and Reel



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





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

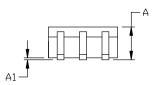
DATE 11 APR 2023

NOTES:

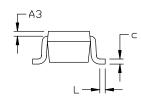
- 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
- 2. CONTROLLING DIMENSION: MILLIMETERS
- 3. 419A-01 DBSDLETE, NEW STANDARD 419A-02
- 4. DIMENSIONS D AND E1 DO NOT INCLUDE MOLD FLASH,
 PROTRUSIONS, OR GATE BURRS.MOLD FLASH, PROTRUSIONS,
 OR GATE BURRS SHALL NOT EXCEED 0.1016MM PER SIDE.

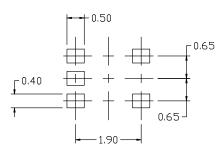
DIM	MILLIMETERS				
INITU	MIN.	N□M.	MAX.		
А	0.80	0.95	1.10		
A1			0.10		
A3	0,20 REF				
b	0.10	0.20	0.30		
C	0.10		0.25		
D	1.80	2.00	2,20		
Е	2.00	2.10	2.20		
E1	1.15	1.25	1.35		
е	0.65 BSC				
L	0.10	0.15	0.30		

5 4 E1 E1 E1 E1 E1 E1



◆ 0.2 M B M





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.

GENERIC MARKING DIAGRAM*



*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)

STYLE 1:
PIN 1. BASE
EMITTER
3. BASE
COLLECTOR
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 ANODE 3. CATHODE 2 4. CATHODE 3 5. CATHODE 4

STYLE 6: PIN 1. EMITTER 2 2. BASE 2 3. EMITTER 1 4. COLLECTOR STYLE 7:
PIN 1. BASE
2. EMITTER
3. BASE
4. COLLECTOR
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 datasheet for style callout. If style type is not called out in the datasheet refer to the device datasheet pinout or pin assignment.

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:

5. COLLECTOR 2/BASE 1

SC-88A (SC-70-5/SOT-353)

PAGE 1 OF 1

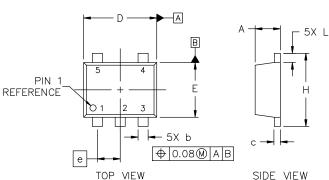
onsemi and ONSEMI are trademarks of Semiconductor Components Industries, LLC dba onsemi or its subsidiaries in the United States and/or other countries. onsemi reserves the right to make changes without further notice to any products herein. onsemi makes no warranty, representation or guarantee regarding 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.





SOT-553-5 1.60x1.20x0.55, 0.50P CASE 463B ISSUE D

DATE 21 FEB 2024



NOTES:

- . DIMENSIONING AND TOLERANCING CONFORM TO ASME Y14.5-2018.
- . ALL DIMENSION ARE IN MILLIMETERS.
- 3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH THICKNESS. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.

DIM				
DIM	MIN.	NOM.	MAX.	
А	0.50	0.55	0.60	
b	0.17	0.22	0.27	
С	0.08	0.13	0.18	
D	1.55	1.60	1.65	
E	1.15	1.20	1.25	
е	0.50 BSC			
Н	1.55	1.60	1.65	
Ĺ	0.10	0.20	0.30	

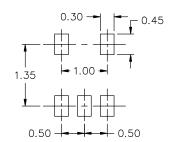
STYLE 5:

PIN 1. ANODE 2. EMITTER

3. BASE 4. COLLECTOR

5. CATHODE

MILLIMETERS



RECOMMENDED MOUNTING 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*



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. Some products may not follow the Generic Marking.

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

STYLE 6: STYLE 9: STYLE 7 STYLE 8: PIN 1. EMITTER 2 PIN 1. CATHODE 2. COLLECTOR PIN 1. ANODE 2. CATHODE PIN 1. BASE 2. EMITTER 2. BASE 2 **EMITTER 1** 3. BASE 4. COLLECTOR 3. N/C 4. BASE 3. ANODE 4. ANODE 4. COLLECTOR 1 COLLECTOR 2/BASE 1 5. EMITTER 5. ANODE

DOCUMENT NUMBER: 98AON11127D Electronic versions are uncontrolled except when accessed directly from the Document Repository. Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.

DESCRIPTION: SOT-553-5 1.60x1.20x0.55, 0.50P 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.



MILLIMFTERS

 $N\square M$

0.37

0.15

0.12

1.00

0.80

0.35 BSC

1.00

0.175

MIN

0.34

0.10

0.07

0.95

0.75

0.95

0.125

DIM

Α

b

C

 \mathbb{D}

E

9 Н



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

DATE 17 JAN 2024

MAX

0.40

0.20

0.17

1.05

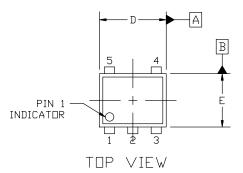
0.85

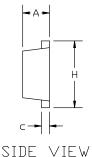
1.05

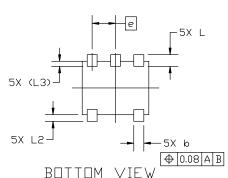
0.225

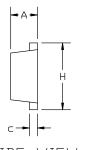
NOTES:

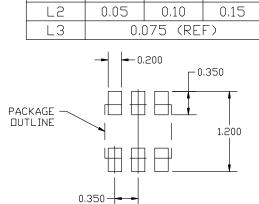
- DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 2018.
- CONTROLLING DIMENSION: MILLIMETERS.
- MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF THE BASE MATERIAL.
- 4. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR GATE BURRS.











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.

GENERIC MARKING DIAGRAM*



= Specific Device Code

= Month Code

*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "■", may

,	e present. Some produ Generic Marking.	ucts may	

Electronic versions are uncontrolled except when accessed directly from the Document Repository. **DOCUMENT NUMBER:** 98AON26457D Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red. **DESCRIPTION:** SOT-953 1.00x0.80x0.37, 0.35P PAGE 1 OF 8

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.

onsemi, ONSEMI., and other names, marks, and brands are registered and/or common law trademarks of Semiconductor Components Industries, LLC dba "onsemi" or its affiliates and/or subsidiaries in the United States and/or other countries. onsemi owns the rights to a number of patents, trademarks, copyrights, trade secrets, and other intellectual property. A listing of onsemi's product/patent coverage may be accessed at www.onsemi.com/site/pdf/Patent-Marking.pdf. onsemi reserves the right to make changes at any time to any products or information herein, without notice. The information herein is provided "as-is" and onsemi makes no warranty, representation or guarantee regarding the accuracy of the information, product features, availability, functionality, or 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. Buyer is responsible for its products and applications using **onsemi** products, including compliance with all laws, regulations and safety requirements or standards, regardless of any support or applications information provided by **onsemi**. "Typical" parameters which may be provided in **onsemi** data sheets and/or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including "Typicals" must be validated for each customer application by customer's technical experts. **onsemi** does not convey any license under any of its intellectual property rights nor the rights of others. **onsemi** products are not designed, intended, or authorized for use as a critical component in life support systems. or any FDA Class 3 medical devices or medical devices with a same or similar classification in a foreign jurisdiction or any devices intended for implantation in the human body. Should Buyer purchase or use **onsemi** products for any such unintended or unauthorized application, Buyer shall indemnify and hold **onsemi** and its officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, costs, damages, and expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized use, even if such claim alleges that **onsemi** was negligent regarding the design or manufacture of the part. **onsemi** is an Equal Opportunity/Affirmative Action Employer. This literature is subject to all applicable copyright laws and is not for resale in any manner.

ADDITIONAL INFORMATION

TECHNICAL PUBLICATIONS:

 $\textbf{Technical Library:} \ \underline{www.onsemi.com/design/resources/technical-documentation}$

onsemi Website: www.onsemi.com

ONLINE SUPPORT: www.onsemi.com/support

For additional information, please contact your local Sales Representative at

www.onsemi.com/support/sales