NLSV4T244

Non-Inverting Level Translator, Dual-Supply, 4-Bit

The NLSV4T244 is a 4−bit configurable dual−supply voltage level translator. The input A_n and output B_n ports are designed to track two different power supply rails, V_{CCA} and V_{CCB} respectively. Both supply rails are configurable from 0.9 V to 4.5 V allowing universal low−voltage translation from the input A_n to the output B_n port.

Features

- Wide V_{CCA} and V_{CCB} Operating Range: 0.9 V to 4.5 V
- High−Speed w/ Balanced Propagation Delay
- Inputs and Outputs have OVT Protection to 4.5 V
- Non−preferential V_{CCA} and V_{CCB} Sequencing
- Outputs at 3−State until Active V_{CC} is Reached
- Power−Off Protection
- Outputs Switch to 3−State with V_{CCB} at GND
- Ultra−Small Packaging: 1.7 mm x 2.0 mm UQFN12
- NLVSV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC−Q100 Qualified and PPAP Capable
- These are Pb−Free Devices

Typical Applications

- Mobile Phones, PDAs, Other Portable Devices

Important Information

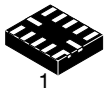
- ESD Protection for All Pins:
  HBM (Human Body Model) > 1500 V

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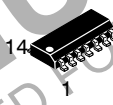
MARKING DIAGRAMS



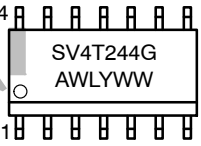
UQFN12
MU SUFFIX
CASE 523AE

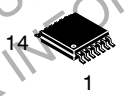


UR = Specific Device Code
M = Date Code
▪ = Pb−Free Package
(Note: Microdot may be in either location)

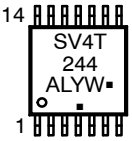


SOIC−14
D SUFFIX
CASE 751A





TSSOP−14
DT SUFFIX
CASE 948G



A = Assembly Location
L, WL = Wafer Lot
Y, YY = Year
W, WW = Work Week
G or ▪ = Pb−Free Package
(Note: Microdot may be in either location)

ORDERING INFORMATION

See detailed ordering and shipping information on page 2 of this data sheet.

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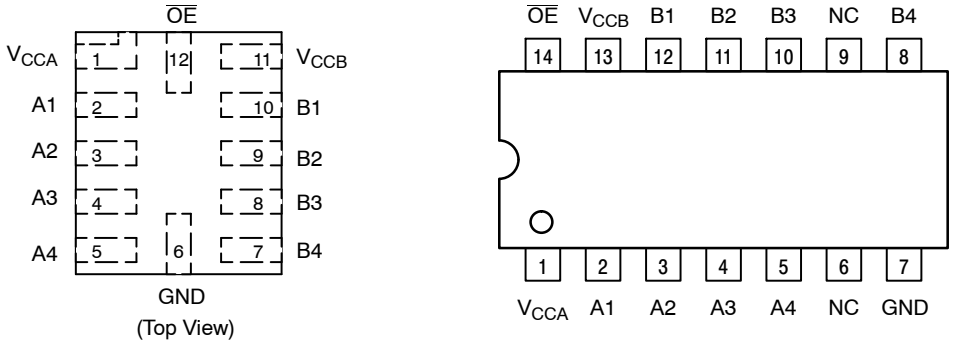


Figure 1. Pin Assignments

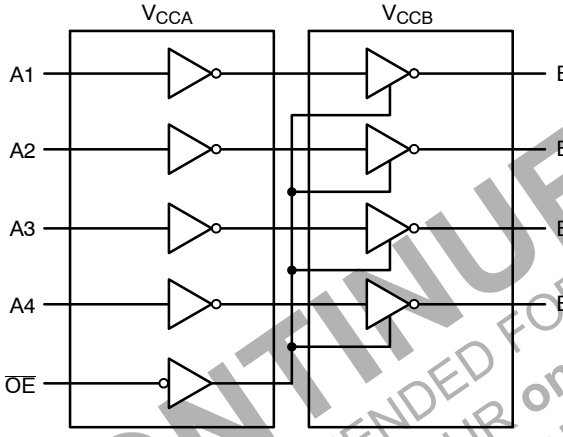


Figure 2. Logic Diagram

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PIN ASSIGNMENT

PIN	FUNCTION
V_{CCA}	Input Port DC Power Supply
V_{CCB}	Output Port DC Power Supply
GND	Ground
A_n	Input Port
B_n	Output Port
$\overline{OE}$	Output Enable

TRUTH TABLE

Inputs		Outputs
$\overline{OE}$	A_n	B_n
L	L	L
L	H	H
H	X	3−State

ORDERING INFORMATION

Device	Package	Shipping †
NLSV4T244MUTAG	UQFN12 (Pb−Free)	3000 / Tape and Reel
NLVSV4T244MUTAG*		
NLSV4T244DR2G	SOIC−14 (Pb−Free)	2500 / Tape and Reel
NLSV4T244DTR2G	TSSOP−14 (Pb−Free)	2500 / Tape and 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

*NLVSV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC−Q100 Qualified and PPAP Capable.

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MAXIMUM RATINGS

Symbol	Rating		Value	Condition	Unit
V_{CCA}, V_{CCB}	DC Supply Voltage		−0.5 to +5.5		V
V_I	DC Input Voltage	A_n	−0.5 to +5.5		V
V_C	Control Input	$\overline{OE}$	−0.5 to +5.5		V
V_O	DC Output Voltage (Power Down)	B_n	−0.5 to +5.5	$V_{CCA} = V_{CCB} = 0$	V
	(Active Mode)	B_n	−0.5 to +5.5		V
	(Tri−State Mode)	B_n	−0.5 to +5.5		V
I_{IK}	DC Input Diode Current		−20	V_I < GND	mA
I_{OK}	DC Output Diode Current		−50	V_O < GND	mA
I_O	DC Output Source/Sink Current		±50		mA
I_{CCA}, I_{CCB}	DC Supply Current Per Supply Pin		±100		mA
I_{GND}	DC Ground Current per Ground Pin		±100		mA
T_{STG}	Storage Temperature		−65 to +150		°C

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.

RECOMMENDED OPERATING CONDITIONS

Symbol	Parameter		Min	Max	Unit
V_{CCA}, V_{CCB}	Positive DC Supply Voltage		0.9	4.5	V
V_I	Bus Input Voltage		GND	4.5	V
V_C	Control Input	$\overline{OE}$	GND	4.5	V
V_{IO}	Bus Output Voltage (Power Down Mode)	B_n	GND	4.5	V
	(Active Mode)	B_n	GND	V_{CCB}	V
	(Tri−State Mode)	B_n	GND	4.5	V
T_A	Operating Temperature Range		−40	+105	°C
$\Delta t / \Delta V$	Input Transition Rise or Rate V_I, from 30% to 70% of V_{CC}; V_{CC} = 3.3 V ±0.3 V		0	10	nS

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.

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DC ELECTRICAL CHARACTERISTICS

Symbol	Parameter	Test Conditions	V_{CCA} (V)	V_{CCB} (V)	−40°C to +85°C		Unit
					Min	Max	
V_{IH}	Input HIGH Voltage (An, $\overline{OE}$)		3.6 – 4.5	0.9 – 4.5	2.2	–	V
			2.7 – 3.6		2.0	–	
			2.3 – 2.7		1.6	–	
			1.4 – 2.3		0.65 * V_{CCA}	–	
			0.9 – 1.4		0.9 * V_{CCA}	–	
V_{IL}	Input LOW Voltage (An, $\overline{OE}$)		3.6 – 4.5	0.9 – 4.5	–	0.8	V
			2.7 – 3.6		–	0.8	
			2.3 – 2.7		–	0.7	
			1.4 – 2.3		–	0.35 * V_{CCA}	
			0.9 – 1.4		–	0.1 * V_{CCA}	
V_{OH}	Output HIGH Voltage	I_{OH} = −100 μA; V_I = V_{IH}	0.9 – 4.5	0.9 – 4.5	V_{CCB} – 0.2	–	V
		I_{OH} = −0.5 mA; V_I = V_{IH}	0.9	0.9	0.75 * V_{CCB}	–	
		I_{OH} = −2 mA; V_I = V_{IH}	1.4	1.4	1.05	–	
		I_{OH} = −6 mA; V_I = V_{IH}	1.65	1.65	1.25	–	
			2.3	2.3	2.0	–	
		I_{OH} = −12 mA; V_I = V_{IH}	2.3	2.3	1.8	–	
			2.7	2.7	2.2	–	
		I_{OH} = −18 mA; V_I = V_{IH}	2.3	2.3	1.7	–	
			3.0	3.0	2.4	–	
		I_{OH} = −24 mA; V_I = V_{IH}	3.0	3.0	2.2	–	
V_{OL}	Output LOW Voltage	I_{OL} = 100 μA; V_I = V_{IL}	0.9 – 4.5	0.9 – 4.5	–	0.2	V
		I_{OL} = 0.5 mA; V_I = V_{IL}	1.1	1.1	–	0.3	
		I_{OL} = 2 mA; V_I = V_{IL}	1.4	1.4	–	0.35	
		I_{OL} = 6 mA; V_I = V_{IL}	1.65	1.65	–	0.3	
		I_{OL} = 12 mA; V_I = V_{IL}	2.3	2.3	–	0.4	
			2.7	2.7	–	0.4	
		I_{OL} = 18 mA; V_I = V_{IL}	2.3	2.3	–	0.6	
			3.0	3.0	–	0.45	
		I_{OL} = 24 mA; V_I = V_{IL}	3.0	3.0	–	0.6	
I_I	Input Leakage Current	V_I = V_{CCA} or GND	0.9 – 4.5	0.9 – 4.5	−1.0	1.0	μA
I_{OFF}	Power−Off Leakage Current	$\overline{OE}$ = 0 V	0 0.9 – 4.5	0.9 – 4.5 0	−1.0 −1.0	1.0 1.0	μA
I_{CCA}	Quiescent Supply Current	V_I = V_{CCA} or GND; I_O = 0, V_{CCA} = V_{CCB}	0.9 – 4.5	0.9 – 4.5	–	2.0	μA
I_{CCB}	Quiescent Supply Current	V_I = V_{CCA} or GND; I_O = 0, V_{CCA} = V_{CCB}	0.9 – 4.5	0.9 – 4.5	–	2.0	μA
I_{CCA} + I_{CCB}	Quiescent Supply Current	V_I = V_{CCA} or GND; I_O = 0, V_{CCA} = V_{CCB}	0.9 – 4.5	0.9 – 4.5	–	4.0	μA
ΔI_{CCA}	Increase in I_{CC} per Input Voltage, Other Inputs at V_{CCA} or GND	V_I = V_{CCA} – 0.6 V; V_I = V_{CCA} or GND	4.5 3.6	4.5 3.6	–	10 5.0	μA
ΔI_{CCB}	Increase in I_{CC} per Input Voltage, Other Inputs at V_{CCA} or GND	V_I = V_{CCA} – 0.6 V; V_I = V_{CCA} or GND	4.5 3.6	4.5 3.6	–	10 5.0	μA
I_{OZ}	I/O Tri−State Output Leakage Current	T_A = 25°C, $\overline{OE}$ = V_{CCA}	0.9 – 4.5	0.9 – 4.5	−1.0	1.0	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.

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TOTAL STATIC POWER CONSUMPTION (I_{CCA} + I_{CCB})

	−40°C to +85°C										
	V_{CCB} (V)										
	4.5		3.3		2.8		1.8		0.9		
V_{CCA} (V)	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Unit
4.5		2		2		2		2		< 1.5	μA
3.3		2		2		2		2		< 1.5	μA
2.8		< 2		< 1		< 1		< 0.5		< 0.5	μA
1.8		< 1		< 1		< 0.5		< 0.5		< 0.5	μA
0.9		< 0.5		< 0.5		< 0.5		< 0.5		< 0.5	μA

NOTE: Connect ground before applying supply voltage V_{CCA} or V_{CCB}. This device is designed with the feature that the power−up sequence of V_{CCA} and V_{CCB} will not damage the IC.

AC ELECTRICAL CHARACTERISTICS

			−40°C to +85°C										
			V_{CCB} (V)										
			4.5		3.3		2.8		1.8		1.2		
Symbol	Parameter	V_{CCA} (V)	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Unit
t_{PLH}, t_{PHL} (Note 1)	Propagation Delay, A_n to B_n	4.5		1.6		1.8		2.0		2.1		2.3	nS
		3.3		1.7		1.9		2.1		2.3		2.6	
		2.8		1.9		2.1		2.3		2.5		2.8	
		1.8		2.1		2.4		2.5		2.7		3.0	
		1.2		2.4		2.7		2.8		3.0		3.3	
t_{PZH}, t_{PZL} (Note 1)	Output Enable, $\overline{OE}$ to B_n	4.5		2.6		3.8		4.0		4.1		4.3	nS
		3.3		3.7		3.9		4.1		4.3		4.6	
		2.5		3.9		4.1		4.3		4.5		4.8	
		1.8		4.1		4.4		4.5		4.7		5.0	
		1.2		4.4		4.7		4.8		5.0		5.3	
t_{PHZ}, t_{PLZ} (Note 1)	Output Disable, $\overline{OE}$ to B_n	4.5		2.6		3.8		4.0		4.1		4.3	nS
		3.3		3.7		3.9		4.1		4.3		4.6	
		2.5		3.9		4.1		4.3		4.5		4.8	
		1.8		4.1		4.4		4.5		4.7		5.0	
		1.2		4.4		4.7		4.8		5.0		5.3	
t_{OSHL}, t_{OSLH} (Note 1)	Output to Output Skew, Time	4.5		0.15		0.15		0.15		0.15		0.15	nS
		3.3		0.15		0.15		0.15		0.15		0.15	
		2.5		0.15		0.15		0.15		0.15		0.15	
		1.8		0.15		0.15		0.15		0.15		0.15	
		1.2		0.15		0.15		0.15		0.15		0.15	

1. Propagation delays defined per Figure 3.

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CAPACITANCE

Symbol	Parameter	Test Conditions	Typ (Note 2)	Unit
C_{IN}	Control Pin Input Capacitance	V_{CCA} = V_{CCB} = 3.3 V, V_I = 0 V or $V_{CCA/B}$	3.5	pF
$C_{I/O}$	I/O Pin Input Capacitance	V_{CCA} = V_{CCB} = 3.3 V, V_I = 0 V or $V_{CCA/B}$	5.0	pF
C_{PD}	Power Dissipation Capacitance	V_{CCA} = V_{CCB} = 3.3 V, V_I = 0 V or V_{CCA}, f = 10 MHz	20	pF

2. Typical values are at T_A = +25°C.
3. C_{PD} is defined as the value of the IC's equivalent capacitance from which the operating current can be calculated from: $I_{CC(operating)} \cong C_{PD} \times V_{CC} \times f_{IN} \times N_{SW}$ where $I_{CC} = I_{CCA} + I_{CCB}$ and N_{SW} = total number of outputs switching.

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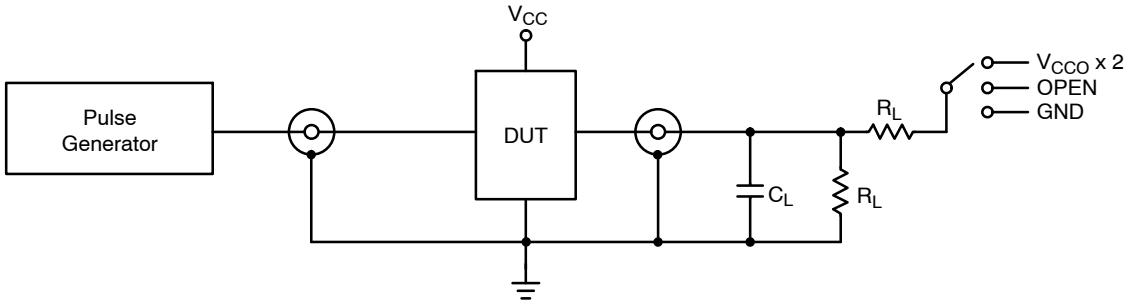
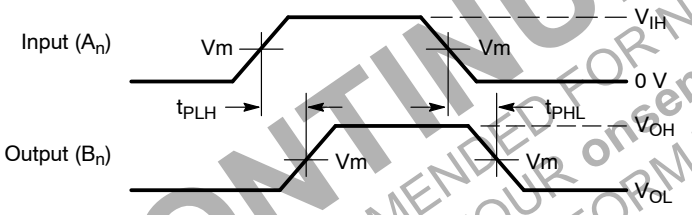
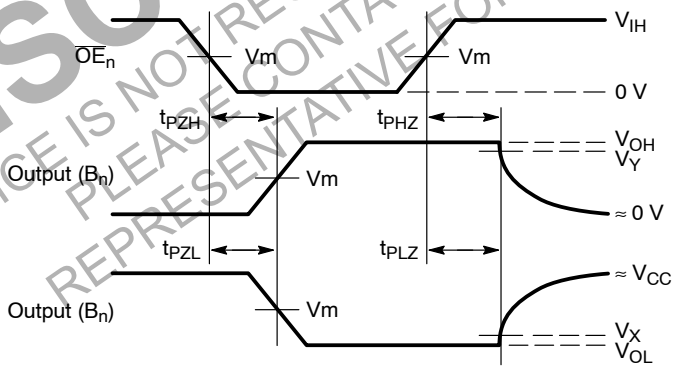


Figure 3. AC (Propagation Delay) Test Circuit

Test	Switch
t_{PLH}, t_{PHL}	OPEN
t_{PLZ}, t_{PZL}	V_{CCO} x 2
t_{PHZ}, t_{PZH}	GND
C_L = 15 pF or equivalent (includes probe and jig capacitance) R_L = 2 kΩ or equivalent Z_{OUT} of pulse generator = 50 Ω	



Waveform 1 – Propagation Delays
$t_R = t_F$ = 2.0 ns, 10% to 90%; f = 1 MHz; t_W = 500 ns



Waveform 2 – Output Enable and Disable Times
$t_R = t_F$ = 2.0 ns, 10% to 90%; f = 1 MHz; t_W = 500 ns

Figure 4. AC (Propagation Delay) Test Circuit Waveforms

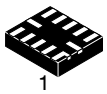
Symbol	V_{CC}				
	3.0 V – 4.5 V	2.3 V – 2.7 V	1.65 V – 1.95 V	1.4 V – 1.6 V	0.9 V – 1.3 V
V_{mA}	$V_{CCA}/2$	$V_{CCA}/2$	$V_{CCA}/2$	$V_{CCA}/2$	$V_{CCA}/2$
V_{mB}	$V_{CCB}/2$	$V_{CCB}/2$	$V_{CCB}/2$	$V_{CCB}/2$	$V_{CCB}/2$
V_X	V_{OL} + 10% V_{OH}	V_{OL} + 10% V_{OH}	V_{OL} + 10% V_{OH}	V_{OL} + 10% V_{OH}	V_{OL} + 10% V_{OH}
V_Y	V_{OH} x 0.9	V_{OH} x 0.9	V_{OH} x 0.9	V_{OH} x 0.9	V_{OH} x 0.9

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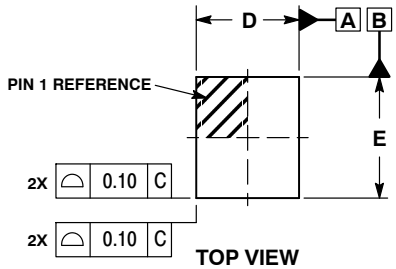
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UQFN12 1.7x2.0, 0.4P
CASE 523AE
ISSUE A

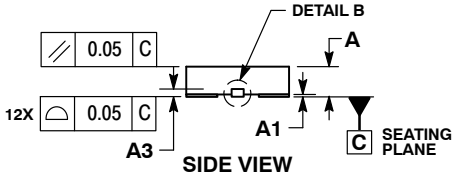
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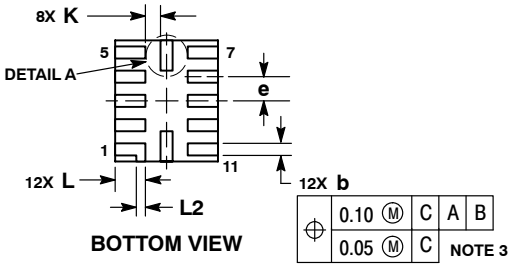
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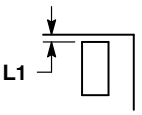
TOP VIEW



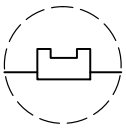
SIDE VIEW



BOTTOM VIEW



DETAIL A
NOTE 5

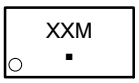


DETAIL B
OPTIONAL
CONSTRUCTION

NOTES:
1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
2. CONTROLLING DIMENSION: MILLIMETERS
3. DIMENSION b APPLIES TO PLATED TERMINAL AND IS MEASURED BETWEEN 0.15 AND 0.30 MM FROM TERMINAL TIP.
4. MOLD FLASH ALLOWED ON TERMINALS ALONG EDGE OF PACKAGE. FLASH 0.03 MAX ON BOTTOM SURFACE OF TERMINALS.
5. DETAIL A SHOWS OPTIONAL CONSTRUCTION FOR TERMINALS.

	MILLIMETERS	
DIM	MIN	MAX
A	0.45	0.55
A1	0.00	0.05
A3	0.127 REF	
b	0.15	0.25
D	1.70 BSC	
E	2.00 BSC	
e	0.40 BSC	
K	0.20	----
L	0.45	0.55
L1	0.00	0.03
L2	0.15 REF	

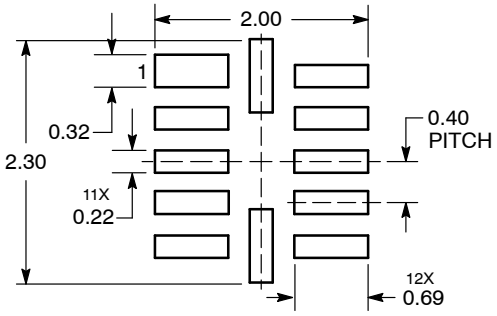
GENERIC MARKING DIAGRAM*



XX = Specific Device Code
M = Date Code
▪ = Pb−Free Package

*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.

MOUNTING FOOTPRINT
SOLDERMASK DEFINED



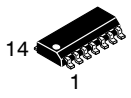
DIMENSIONS: MILLIMETERS

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DESCRIPTION:	**UQFN12 1.7 X 2.0, 0.4P**	**PAGE 1 OF 1**

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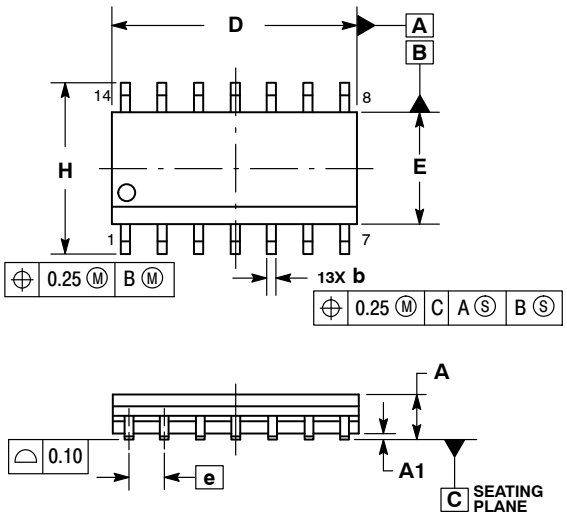
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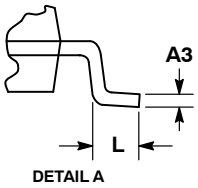


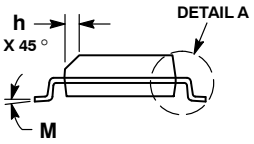
SCALE 1:1

SOIC−14 NB
CASE 751A−03
ISSUE L

DATE 03 FEB 2016



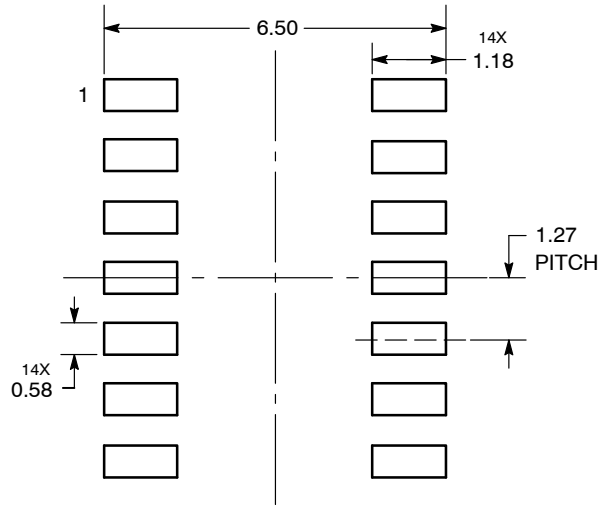




NOTES:
1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. DIMENSION b DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE PROTRUSION SHALL BE 0.13 TOTAL IN EXCESS OF AT MAXIMUM MATERIAL CONDITION.
4. DIMENSIONS D AND E DO NOT INCLUDE MOLD PROTRUSIONS.
5. MAXIMUM MOLD PROTRUSION 0.15 PER SIDE.

	MILLIMETERS		INCHES	
DIM	MIN	MAX	MIN	MAX
A	1.35	1.75	0.054	0.068
A1	0.10	0.25	0.004	0.010
A3	0.19	0.25	0.008	0.010
b	0.35	0.49	0.014	0.019
D	8.55	8.75	0.337	0.344
E	3.80	4.00	0.150	0.157
e	1.27 BSC		0.050 BSC	
H	5.80	6.20	0.228	0.244
h	0.25	0.50	0.010	0.019
L	0.40	1.25	0.016	0.049
M	0 °	7 °	0 °	7 °

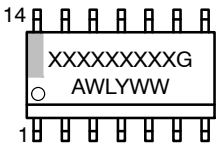
SOLDERING FOOTPRINT*



DIMENSIONS: MILLIMETERS

*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*



XXXXX = Specific Device Code
A = Assembly Location
WL = Wafer Lot
Y = Year
WW = Work Week
G = Pb−Free Package

*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.

STYLES ON PAGE 2

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DESCRIPTION:	**SOIC−14 NB**	**PAGE 1 OF 2**

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SOIC−14
CASE 751A−03
ISSUE L

DATE 03 FEB 2016

STYLE 1:
PIN 1. COMMON CATHODE
2. ANODE/CATHODE
3. ANODE/CATHODE
4. NO CONNECTION
5. ANODE/CATHODE
6. NO CONNECTION
7. ANODE/CATHODE
8. ANODE/CATHODE
9. ANODE/CATHODE
10. NO CONNECTION
11. ANODE/CATHODE
12. ANODE/CATHODE
13. NO CONNECTION
14. COMMON ANODE

STYLE 2:
CANCELLED

STYLE 3:
PIN 1. NO CONNECTION
2. ANODE
3. ANODE
4. NO CONNECTION
5. ANODE
6. NO CONNECTION
7. ANODE
8. ANODE
9. ANODE
10. NO CONNECTION
11. ANODE
12. ANODE
13. NO CONNECTION
14. COMMON CATHODE

STYLE 4:
PIN 1. NO CONNECTION
2. CATHODE
3. CATHODE
4. NO CONNECTION
5. CATHODE
6. NO CONNECTION
7. CATHODE
8. CATHODE
9. CATHODE
10. NO CONNECTION
11. CATHODE
12. CATHODE
13. NO CONNECTION
14. COMMON ANODE

STYLE 5:
PIN 1. COMMON CATHODE
2. ANODE/CATHODE
3. ANODE/CATHODE
4. ANODE/CATHODE
5. ANODE/CATHODE
6. NO CONNECTION
7. COMMON ANODE
8. COMMON CATHODE
9. ANODE/CATHODE
10. ANODE/CATHODE
11. ANODE/CATHODE
12. ANODE/CATHODE
13. NO CONNECTION
14. COMMON ANODE

STYLE 6:
PIN 1. CATHODE
2. CATHODE
3. CATHODE
4. CATHODE
5. CATHODE
6. CATHODE
7. CATHODE
8. ANODE
9. ANODE
10. ANODE
11. ANODE
12. ANODE
13. ANODE
14. ANODE

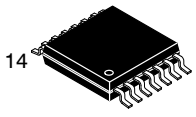
STYLE 7:
PIN 1. ANODE/CATHODE
2. COMMON ANODE
3. COMMON CATHODE
4. ANODE/CATHODE
5. ANODE/CATHODE
6. ANODE/CATHODE
7. ANODE/CATHODE
8. ANODE/CATHODE
9. ANODE/CATHODE
10. ANODE/CATHODE
11. COMMON CATHODE
12. COMMON ANODE
13. ANODE/CATHODE
14. ANODE/CATHODE

STYLE 8:
PIN 1. COMMON CATHODE
2. ANODE/CATHODE
3. ANODE/CATHODE
4. NO CONNECTION
5. ANODE/CATHODE
6. ANODE/CATHODE
7. COMMON ANODE
8. COMMON ANODE
9. ANODE/CATHODE
10. ANODE/CATHODE
11. NO CONNECTION
12. ANODE/CATHODE
13. ANODE/CATHODE
14. COMMON CATHODE

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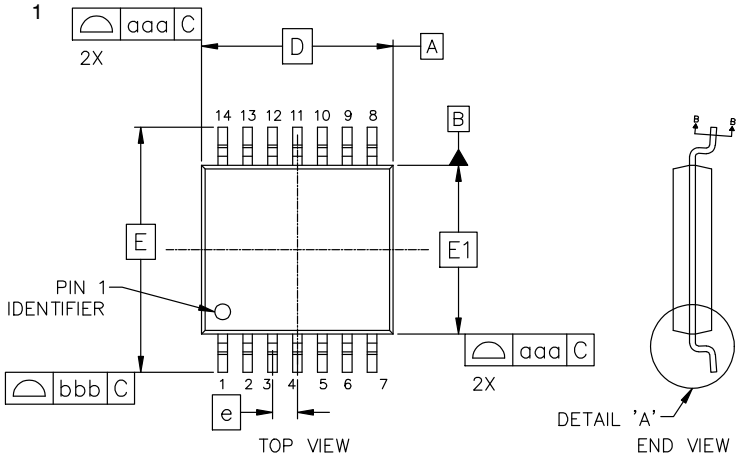
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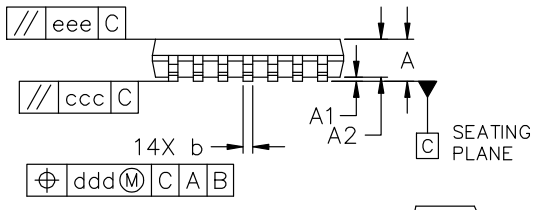
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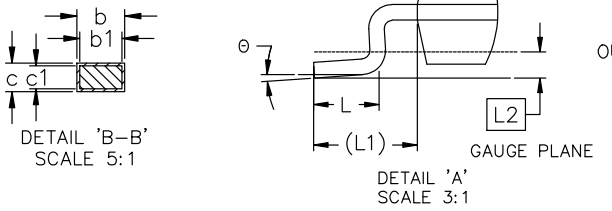


TSSOP−14 5.00x4.40x0.95, 0.65P
CASE 948G
ISSUE D

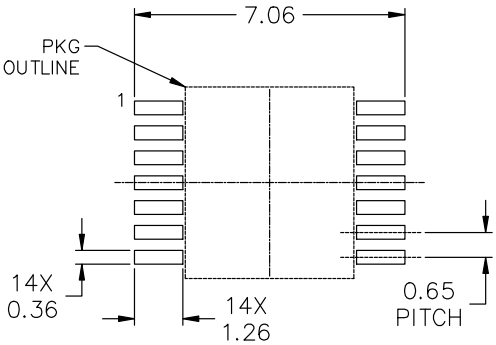
DATE 30 JUN 2026







MILLIMETERS			
DIM	MIN	NOM	MAX
A	−−−	−−−	1.20
A1	0.05	0.10	0.15
A2	0.85	0.95	1.05
b	0.19	0.25	0.30
b1	0.19	0.22	0.25
c	0.09	0.15	0.20
c1	0.09	0.12	0.16
D	5.00 BSC		
E	6.40 BSC		
E1	4.40 BSC		
e	0.65 BSC		
L	0.50	0.63	0.75
L1	1.00 REF		
L2	0.25 BSC		
θ	0°	4°	8°
TOLERANCE FORM & POSITION			
aaa	0.10		
bbb	0.15		
ccc	0.08		
ddd	0.10		
eee	0.10		

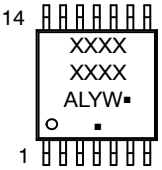


RECOMMENDED MOUNTING FOOTPRINT

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

NOTES:
1. DIMENSIONING AND TOLERANCING AS PER ASME Y14.5M, 2018.
2. CONTROLLING DIMENSION: MILLIMETER.
3. DIMENSION D DOES NOT INCLIDE MOLD FLASH, PROTRUSIONS OR GATE BURRS. MOLD FLASH OR GATE BURRS SHALL NOT EXCEED 0.15 PER SIDE.
4. DIMENSION E1 DOES NOT INCLUDE INTERLEAD FLASH OR PROTRUSION. INTERLEAD FLASH OR PROTRUSION SHALL NOT EXCEED 0.25 PER SIDE.
5. DIMENSION b DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.08 TOTAL IN EXCESS OF THE b DIMENSION AT MAXIMUM MATERIAL CONDITION.
6. TERMINAL NUMBERS ARE SHOWN FOR REFERENCE ONLY.

GENERIC MARKING DIAGRAM*



A = Assembly Location
L = Wafer Lot
Y = Year
W = Work Week
▪ = 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.

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DESCRIPTION:	TSSOP−14 5.00x4.40x0.95, 0.65P	PAGE 1 OF 1

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