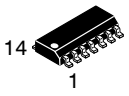
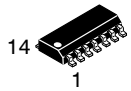
Hex Inverter with Schmitt Trigger Input

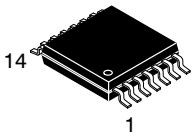
74AC14, 74ACT14



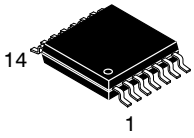
SOIC−14 NB
CASE 751A−03



SOIC14
CASE 751EF



TSSOP−14 WB
CASE 948G



TSSOP−14 WB
CASE 948G−01

General Description

The 74AC14 and 74ACT14 contain six inverter gates each with a Schmitt trigger input. They are capable of transforming slowly changing input signals into sharply defined, jitter−free output signals. In addition, they have a greater noise margin than conventional inverters.

The 74AC14 and 74ACT14 have hysteresis between the positive−going and negative−going input thresholds (typically 1.0 V) which is determined internally by transistor ratios and is essentially insensitive to temperature and supply voltage variations.

Features

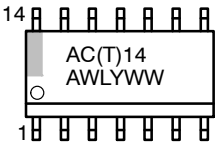
- I_{CC} Reduced by 50%
- Outputs Source/Sink 24 mA
- 74ACT14 has TTL−Compatible Inputs
- These are Pb−Free Devices

ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Value	Unit
Supply Voltage	V_{CC}	−0.5 to +7.0	V
DC Input Diode Current V_I = −0.5 V V_I = V_{CC} + 1.5 V	I_{IK}	 −20 +20	mA
DC Input Voltage	V_I	−0.5 to V_{CC} + 1.5	V
DC Output Diode Current V_O = −0.5 V V_O = V_{CC} + 0.5 V	I_{OK}	 −20 +20	mA
DC Output Voltage	V_O	−0.5 to V_{CC} + 0.5	V
DC Output Source or Sink Current	I_O	±50	mA
DC V_{CC} or Ground Current per Output Pin	I_{CC} or I_{GND}	±50	mA
Storage Temperature	T_{STG}	−65 to +150	°C
Junction Temperature	T_J	140	°C

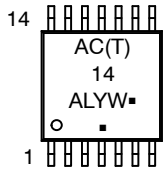
Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

MARKING DIAGRAM



AC14, ACT14	= Specific Device Code
A	= Assembly Location
WL	= Wafer Lot
Y	= Year
WW	= Work Week

MARKING DIAGRAM



AC14, ACT14	= Specific Device Code
A	= Assembly Location
L	= Wafer Lot
Y	= Year
W	= Work Week
▪	= 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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ORDERING INFORMATION

Order Number	Package Number	Package Description
74AC14SC	M14A	14−Lead Small Outline Integrated Circuit (SOIC), JEDEC MS−012, 0.150” Narrow
74AC14MTC	MTC14	14−Lead Thin Shrink Small Outline Package (TSSOP), JEDEC MO−153, 4.4 mm Wide
74ACT14SC	M14A	14−Lead Small Outline Integrated Circuit (SOIC), JEDEC MS−012, 0.150” Narrow
74ACT14MTC	MTC14	14−Lead Thin Shrink Small Outline Package (TSSOP), JEDEC MO−153, 4.4 mm Wide

NOTE: Device also available in Tape and Reel. Specify by appending suffix letter “X” to the ordering number.

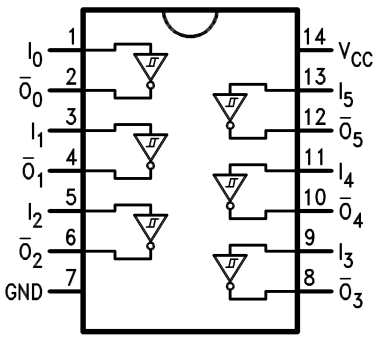


Figure 1. Connection Diagram

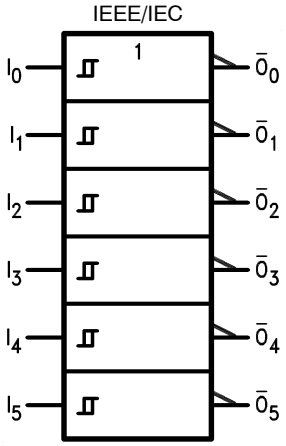


Figure 2. Logic Symbol

PIN DESCRIPTION

Pin	Description
A_n	Inputs
$\overline{O}_n$	Outputs

FUNCTION TABLE

Input	Output
A	$\overline{\mathbf{O}}$
L	H
H	L

RECOMMENDED OPERATING CONDITIONS

Symbol	Parameter	Min	Max	Unit
V_{CC}	Supply Voltage AC ACT	 2.0 4.5	 6.0 5.5	V
V_I	Input Voltage	0	V_{CC}	V
V_O	Output Voltage	0	V_{CC}	V
T_A	Operating Temperature	−40	+85	°C

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 FOR AC

Symbol	Parameter	V_{CC}(V)	Conditions	T_A = +25°C	T_A = −40°C to +85°C		Unit
				Typ	Guaranteed Limits		
V_{OH}	Minimum HIGH Level Output Voltage	3.0	I_{OUT} = −50 μA	2.99	2.9	2.9	V
		4.5		4.49	4.4	4.4	
		5.5		5.49	5.4	5.4	
		3.0	I_{OH} = 12 mA	–	2.56	2.46	
		4.5	I_{OH} = 24 mA	–	3.86	3.76	
		5.5	I_{OH} = 24 mA (Note 1)	–	4.86	4.76	
V_{OL}	Maximum LOW Level Output Voltage	3.0	I_{OUT} = 50 μA	0.002	0.1	0.1	V
		4.5		0.001	0.1	0.1	
		5.5		0.001	0.1	0.1	
		3.0	I_{OL} = 12 mA	–	0.36	0.44	
		4.5	I_{OL} = 24 mA	–	0.36	0.44	
		5.5	I_{OL} = 24 mA (Note 1)	–	0.36	0.44	
I_{IN} (Note 3)	Maximum Input Leakage Current	5.5	V_I = V_{CC}, GND	–	±0.1	±1.0	μA
V_{t+}	Maximum Positive Threshold	3.0	T_A = Worst Case	–	2.2	2.2	V
		4.5		–	3.2	3.2	
		5.5		–	3.9	3.9	
V_{t-}	Minimum Negative Threshold	3.0	T_A = Worst Case	–	0.5	0.5	V
		4.5		–	0.9	0.9	
		5.5		–	1.1	1.1	
$V_{H(MAX)}$	Maximum Hysteresis	3.0	T_A = Worst Case	–	1.2	1.2	V
		4.5		–	1.4	1.4	
		5.5		–	1.6	1.6	
$V_{H(MIN)}$	Minimum Hysteresis	3.0	T_A = Worst Case	–	0.3	0.3	V
		4.5		–	0.4	0.4	
		5.5		–	0.5	0.5	
I_{OLD}	Minimum Dynamic	5.5	V_{OLD} = 1.65 V Max.	–	–	75	mA
I_{OHD}	Output Current (Note 2)	5.5	V_{OHD} = 3.85 V Min.	–	–	−75	mA
I_{CC} (Note 3)	Maximum Quiescent Supply Current	5.5	V_{IN} = V_{CC} or GND	–	2.0	20.0	μA

1. All outputs loaded; thresholds on input associated with output under test.
2. Maximum test duration 2.0 ms, one output loaded at a time.
3. I_{IN} and I_{CC} at 3.0 V are guaranteed to be less than or equal to the respective limit at 5.5 V V_{CC}.

DC ELECTRICAL CHARACTERISTICS FOR ACT

Symbol	Parameter	V_{CC}(V)	Conditions	T_A = +25°C	T_A = −40°C to +85°C		Unit
				Typ	Guaranteed Limits		
V_{IH}	Minimum HIGH Level Input Voltage	4.5	V_{OUT} = 0.1 V or V_{CC} − 0.1 V	1.5	2.0	2.0	V
		5.5		1.5	2.0	2.0	
V_{IL}	Maximum LOW Level Input Voltage	4.5	V_{OUT} = 0.1 V or V_{CC} − 0.1 V	1.5	0.8	0.8	V
		5.5		1.5	0.8	0.8	
V_{OH}	Minimum HIGH Level Output Voltage	4.5	I_{OUT} = −50 μA	4.49	4.34	4.4	V
		5.5		5.49	5.4	5.4	
		4.5	V_{IN} = V_{IL} or V_{IH}, I_{OH} = −24 mA	–	3.86	3.76	
		5.5	V_{IN} = V_{IL} or V_{IH}, I_{OH} = −24 mA (Note 4)	–	4.86	4.76	
V_{OL}	Maximum LOW Level Output Voltage	4.5	I_{OUT} = 50 μA	0.001	0.1	0.1	V
		5.5		0.001	0.1	0.1	
		4.5	V_{IN} = V_{IL} or V_{IH}, I_{OL} = 24 mA	–	0.36	0.44	
		5.5	V_{IN} = V_{IL} or V_{IH}, I_{OL} = 24 mA (Note 4)	–	0.36	0.44	
I_{IN}	Maximum Input Leakage Current	5.5	V_I = V_{CC}, GND	–	±0.1	±1.0	μA
$V_{H(MAX)}$	Maximum Hysteresis	4.5	T_A = Worst Case	–	1.4	1.4	V
		5.5		–	1.6	1.6	
$V_{H(MIN)}$	Minimum Hysteresis	4.5	T_A = Worst Case	–	0.4	0.4	V
		5.5		–	0.5	0.5	
V_{t+}	Maximum Positive Threshold	4.5	T_A = Worst Case	–	2.0	2.0	V
		5.5		–	2.0	2.0	
V_{t-}	Minimum Negative Threshold	4.5	T_A = Worst Case	–	0.8	0.8	V
		5.5		–	0.8	0.8	
I_{CCT}	Maximum I_{CC}/Input	5.5	V_I = V_{CC} − 2.1 V	0.6	–	1.5	mA
I_{OLD}	Minimum Dynamic Output Current (Note 5)	5.5	V_{OLD} = 1.65 V Max.	–	–	75	mA
I_{OHD}		5.5	V_{OHD} = 3.85 V Min.	–	–	−75	mA
I_{CC}	Maximum Quiescent Supply Current	5.5	V_{IN} = V_{CC} or GND	–	2.0	20.0	μA

4. All outputs loaded; thresholds on input associated with output under test.
5. Maximum test duration 2.0 ms, one output loaded at a time.

AC ELECTRICAL CHARACTERISTICS FOR AC

Symbol	Parameter	V_{CC}(V) (Note 6)	T_A = +25°C, C_L = 50 pF			T_A = −40°C to +85°C, C_L = 50 pF		Unit
			Min	Typ	Max	Min	Max	
t_{PLH}	Propagation Delay	3.3	1.5	9.5	13.5	1.5	15.0	ns
		5.0	1.5	7.0	10.0	1.5	11.0	
t_{PHL}	Propagation Delay	3.3	1.5	7.5	11.5	1.5	13.0	ns
		5.0	1.5	6.0	8.5	1.5	9.5	

6. Voltage range 3.3 is 3.3 V + 0.3 V. Voltage range 5.0 is 5.0 V + 0.5 V.

AC ELECTRICAL CHARACTERISTICS FOR ACT

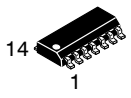
Symbol	Parameter	V_{CC}(V) (Note 7)	T_A = +25°C, C_L = 50 pF			T_A = −40°C to +85°C, C_L = 50 pF		Unit
			Min	Typ	Max	Min	Max	
t_{PLH}	Propagation Delay	5.0	3.0	8.0	10.0	3.0	11.0	ns
t_{PLH}	Propagation Delay	5.0	3.0	8.0	10.0	3.0	11.0	ns

7. Voltage range 5.0 is 5.0 V + 0.5 V.

CAPACITANCE

Symbol	Parameter	Conditions	Typ	Unit
C_{IN}	Input Capacitance	V_{CC} = OPEN	4.5	pF
C_{PD}	Power Dissipation Capacitance AC ACT	V_{CC} = 5.0 V	 25.0 80	pF

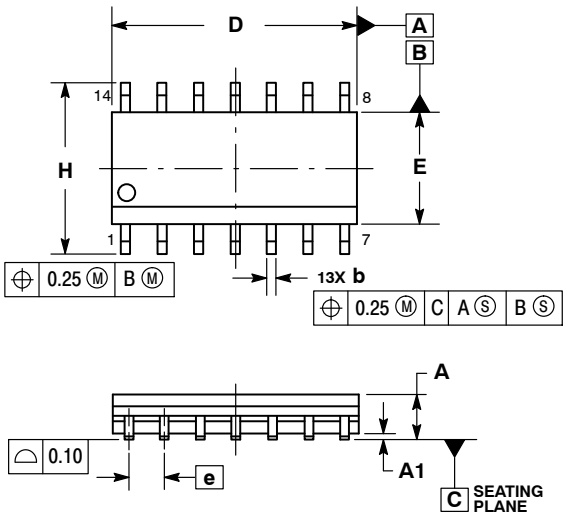
MECHANICAL CASE OUTLINE
PACKAGE DIMENSIONS

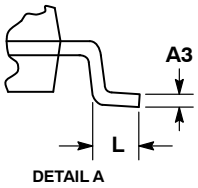


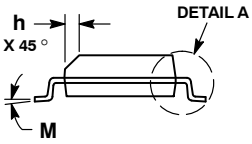
SCALE 1:1

SOIC−14 NB
CASE 751A−03
ISSUE L

DATE 03 FEB 2016



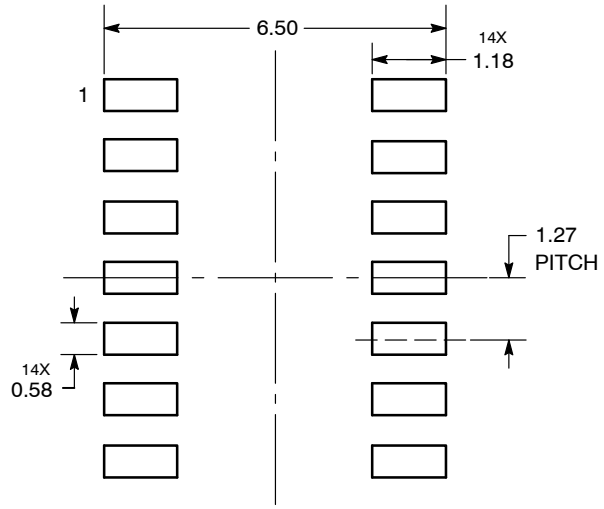




NOTES:
1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. DIMENSION b DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE PROTRUSION SHALL BE 0.13 TOTAL IN EXCESS OF AT MAXIMUM MATERIAL CONDITION.
4. DIMENSIONS D AND E DO NOT INCLUDE MOLD PROTRUSIONS.
5. MAXIMUM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

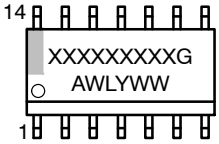
SOLDERING FOOTPRINT*



DIMENSIONS: MILLIMETERS

*For additional information on our Pb−Free strategy and soldering details, please download the ON Semiconductor 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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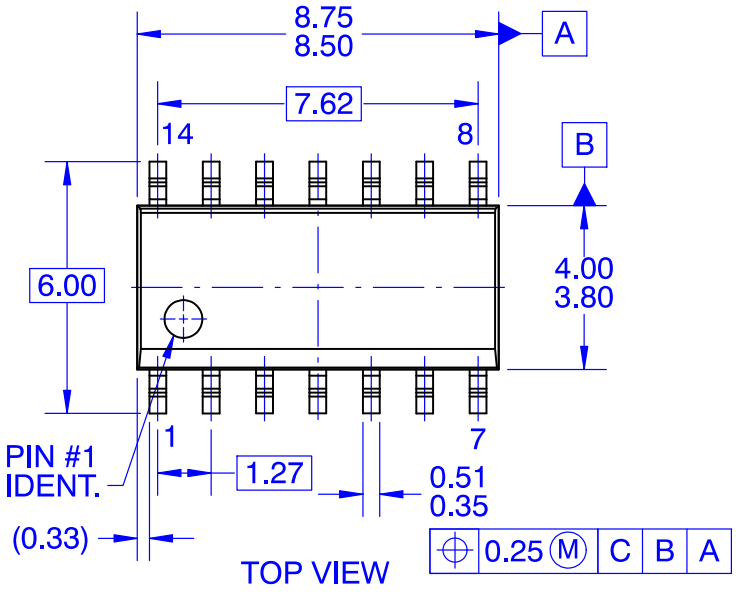
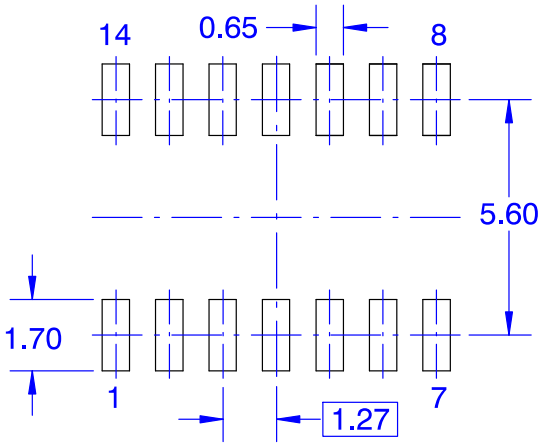
SOIC14
CASE 751EF
ISSUE O

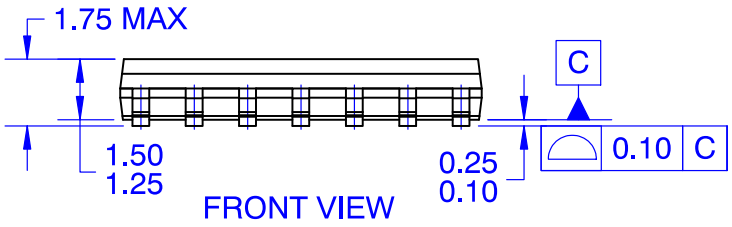
DATE 30 SEP 2016



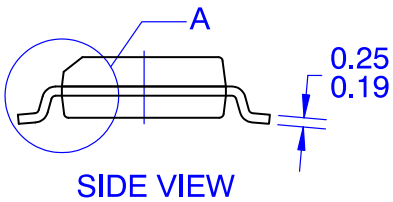
TOP VIEW



LAND PATTERN RECOMMENDATION

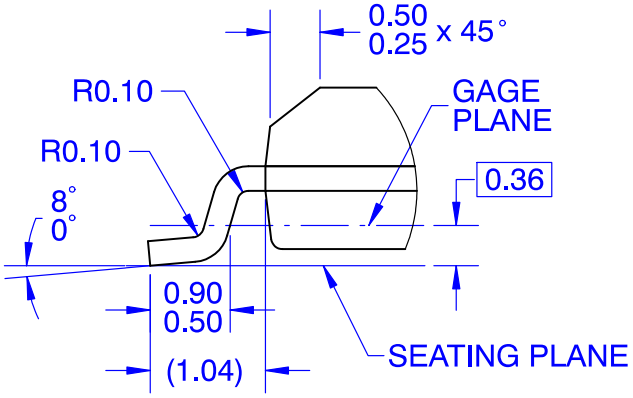


FRONT VIEW



SIDE VIEW

NOTES:
A. CONFORMS TO JEDEC MS–012, VARIATION AB, ISSUE C
B. ALL DIMENSIONS ARE IN MILLIMETERS
C. DIMENSIONS DO NOT INCLUDE MOLD FLASH OR BURRS
D. LAND PATTERN STANDARD: SOIC127P600X145–14M
E. CONFORMS TO ASME Y14.5M, 2009



DETAIL A
SCALE 16 : 1

DOCUMENT NUMBER:	**98AON13739G**	Electronic versions are uncontrolled except when accessed directly from the Document Repository. Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.
DESCRIPTION:	**SOIC14**	**PAGE 1 OF 1**

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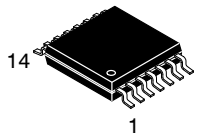
MECHANICAL CASE OUTLINE
PACKAGE DIMENSIONS

TSSOP−14 WB
CASE 948G
ISSUE C

DATE 17 FEB 2016



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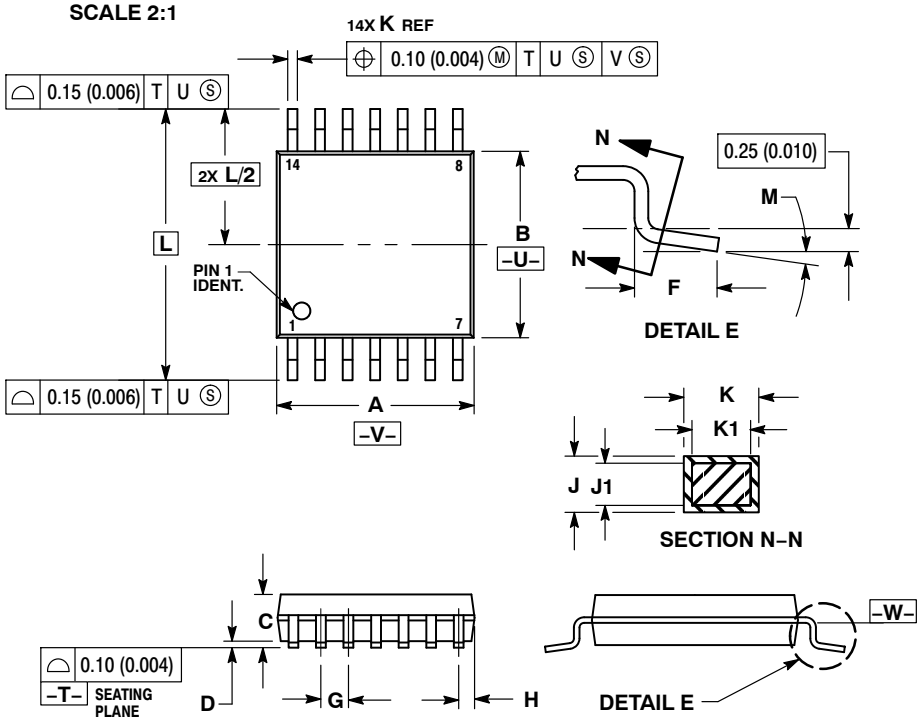
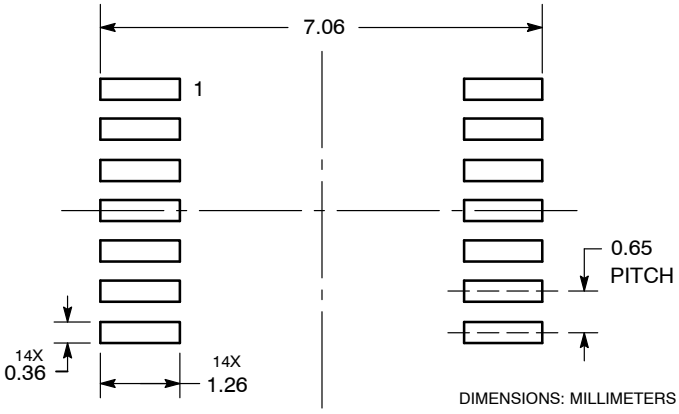


NOTES:
1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: MILLIMETER.
3. DIMENSION A DOES NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS. MOLD FLASH OR GATE BURRS SHALL NOT EXCEED 0.15 (0.006) PER SIDE.
4. DIMENSION B DOES NOT INCLUDE INTERLEAD FLASH OR PROTRUSION. INTERLEAD FLASH OR PROTRUSION SHALL NOT EXCEED 0.25 (0.010) PER SIDE.
5. DIMENSION K DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.08 (0.003) TOTAL IN EXCESS OF THE K DIMENSION AT MAXIMUM MATERIAL CONDITION.
6. TERMINAL NUMBERS ARE SHOWN FOR REFERENCE ONLY.
7. DIMENSION A AND B ARE TO BE DETERMINED AT DATUM PLANE −W−.

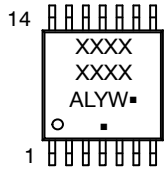
	MILLIMETERS		INCHES	
DIM	MIN	MAX	MIN	MAX
A	4.90	5.10	0.193	0.200
B	4.30	4.50	0.169	0.177
C	−−−	1.20	−−−	0.047
D	0.05	0.15	0.002	0.006
F	0.50	0.75	0.020	0.030
G	0.65 BSC		0.026 BSC	
H	0.50	0.60	0.020	0.024
J	0.09	0.20	0.004	0.008
J1	0.09	0.16	0.004	0.006
K	0.19	0.30	0.007	0.012
K1	0.19	0.25	0.007	0.010
L	6.40 BSC		0.252 BSC	
M	0 °	8 °	0 °	8 °

SOLDERING FOOTPRINT



DIMENSIONS: MILLIMETERS

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 WB	PAGE 1 OF 1

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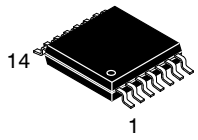
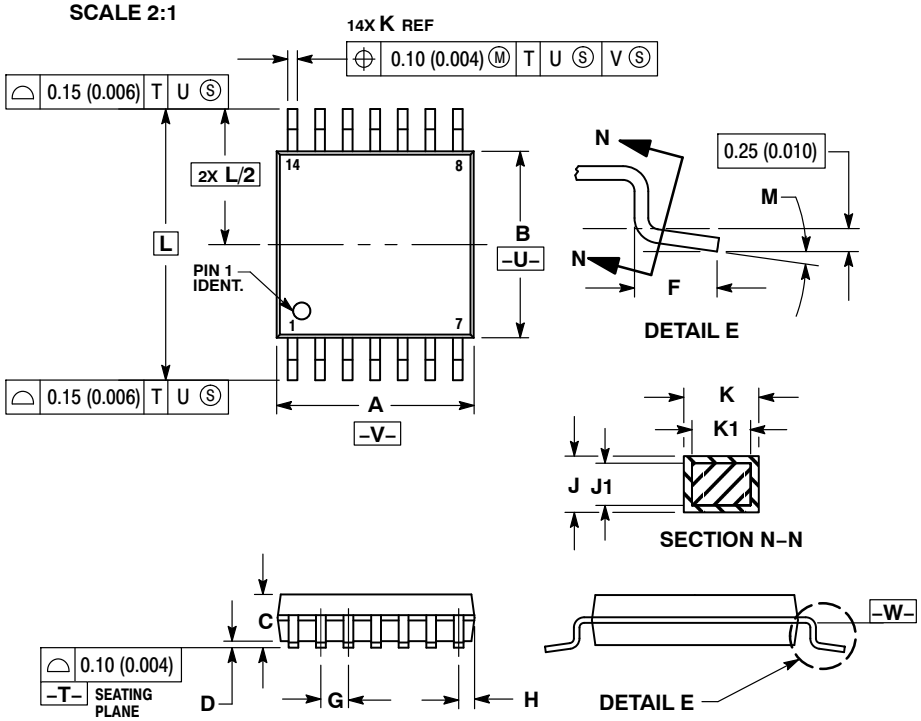
MECHANICAL CASE OUTLINE
PACKAGE DIMENSIONS

TSSOP−14 WB
CASE 948G
ISSUE C

DATE 17 FEB 2016



SCALE 2:1



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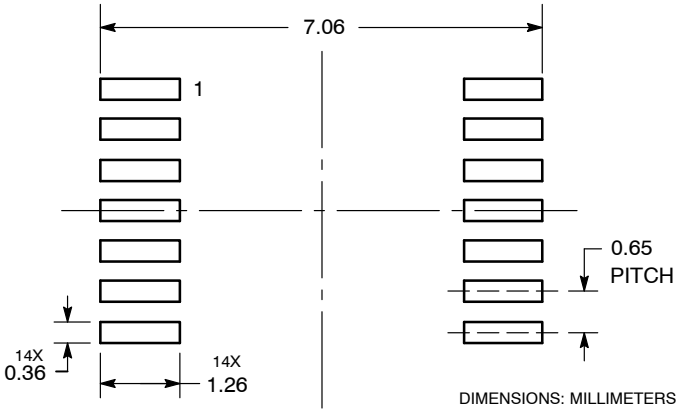
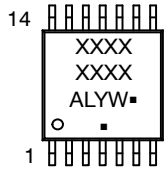


DIMENSIONS: MILLIMETERS

GENERIC MARKING DIAGRAM*



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