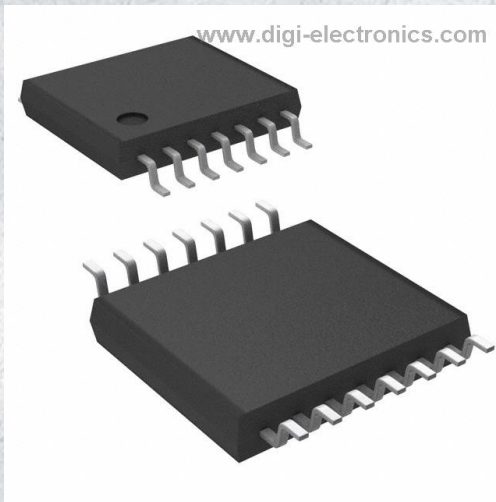


MC74LVX08DTR2G Datasheet



<https://www.DiGi-Electronics.com>

| | |
|------------------------------|--------------------------------|
| DiGi Electronics Part Number | MC74LVX08DTR2G-DG |
| Manufacturer | onsemi |
| Manufacturer Product Number | MC74LVX08DTR2G |
| Description | IC GATE AND 4CH 2-INP 14TSSOP |
| Detailed Description | AND Gate IC 4 Channel 14-TSSOP |



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.

Purchase and inquiry

Manufacturer Product Number:

MC74LVX08DTR2G

Series:

74LVX

Logic Type:

AND Gate

Number of Inputs:

2

Voltage - Supply:

2V ~ 3.6V

Current - Output High, Low:

4mA, 4mA

Input Logic Level - High:

1.5V ~ 2.4V

Operating Temperature:

-40°C ~ 85°C

Supplier Device Package:

14-TSSOP

Base Product Number:

74LVX08

Manufacturer:

onsemi

Product Status:

Active

Number of Circuits:

4

Features:

-

Current - Quiescent (Max):

2 μ A

Input Logic Level - Low:

0.5V ~ 0.8V

Max Propagation Delay @ V, Max CL:

10.6ns @ 3.3V, 50pF

Mounting Type:

Surface Mount

Package / Case:

14-TSSOP (0.173", 4.40mm Width)

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8542.39.0001

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

Quad 2-Input AND Gate

With 5 V-Tolerant Inputs

MC74LVX08

The MC74LVX08 is an advanced high speed CMOS 2-input AND gate. The inputs tolerate voltages up to 6.5 V, allowing the interface of 5.0 V systems to 3.0 V systems.

Features

- High Speed: $t_{PD} = 4.8$ ns (Typ) at $V_{CC} = 3.3$ V
- Low Power Dissipation: $I_{CC} = 2$ μ A (Max) at $T_A = 25^\circ$ C
- Power Down Protection Provided on Inputs
- Balanced Propagation Delays
- Low Noise: $V_{OLP} = 0.5$ V (Max)
- Pin and Function Compatible with Other Standard Logic Families
- Latchup Performance Exceeds 300 mA
- ESD Performance:
 - Human Body Model > 2000 V
- These Devices are Pb-Free and are RoHS Compliant

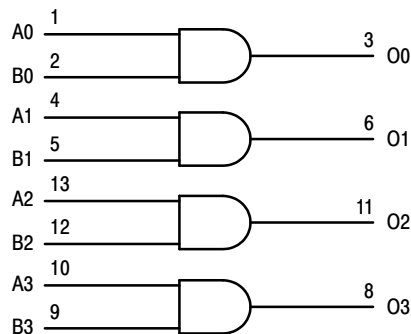


Figure 1. Logic Diagram

PIN NAMES

| Pins | Function |
|--------------|------------------------|
| An, Bn On | Data Inputs Outputs |

FUNCTION TABLE

| INPUTS | | OUTPUTS |
|--------|----|---------|
| An | Bn | On |
| L | L | L |
| L | H | L |
| H | L | L |
| H | H | H |

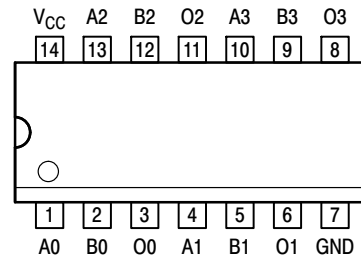


SOIC-14 NB
D SUFFIX
CASE 751A



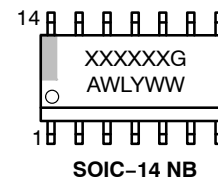
TSSOP-14
DT SUFFIX
CASE 948G

PIN ASSIGNMENT

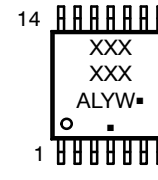


14-Lead (Top View)

MARKING DIAGRAMS



SOIC-14 NB



TSSOP-14

XXX = Specific Device Code
 A = Assembly Location
 WL, L = Wafer Lot
 Y = Year
 WW, W = Work Week
 G or ■ = Pb-Free Package
 (Note: Microdot may be in either location)

ORDERING INFORMATION

See detailed ordering and shipping information in the package dimensions section on page 4 of this data sheet.

MC74LVX08**MAXIMUM RATINGS**

| Symbol | Parameter | Value | Unit |
|------------------|---|------------------------------|------|
| V _{CC} | DC Supply Voltage | -0.5 to +6.5 | V |
| V _{in} | DC Input Voltage | -0.5 to +6.5 | V |
| V _{out} | DC Output Voltage | -0.5 to V _{CC} +0.5 | V |
| I _{IK} | Input Diode Current | -20 | mA |
| I _{OK} | Output Diode Current | ±20 | mA |
| I _{out} | DC Output Current, per Pin | ±25 | mA |
| I _{CC} | DC Supply Current, V _{CC} and GND Pins | ±50 | mA |
| P _D | Power Dissipation | SOIC TSSOP 1077 833 | mW |
| 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 _{CC} | DC Supply Voltage | 2.0 | 3.6 | V |
| V _{in} | DC Input Voltage | 0 | 5.5 | V |
| V _{out} | DC Output Voltage | 0 | V _{CC} | V |
| T _A | Operating Temperature, All Package Types | -40 | +85 | °C |
| Δt/ΔV | Input Rise and Fall Time | 0 | 100 | 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

| Symbol | Parameter | Test Conditions | V _{CC} V | T _A = 25°C | | | T _A = -40 to 85°C | | Unit |
|-----------------|--|---|----------------------|-----------------------|-----|------|------------------------------|------|------|
| | | | | Min | Typ | Max | Min | Max | |
| V _{IH} | High-Level Input Voltage | | 2.0 | 1.5 | | | 1.5 | | V |
| | | | 3.0 | 2.0 | | | 2.0 | | |
| | | | 3.6 | 2.4 | | | 2.4 | | |
| V _{IL} | Low-Level Input Voltage | | 2.0 | | | 0.5 | | 0.5 | V |
| | | | 3.0 | | | 0.8 | | 0.8 | |
| | | | 3.6 | | | 0.8 | | 0.8 | |
| V _{OH} | High-Level Output Voltage (V _{in} = V _{IH} or V _{IL}) | I _{OH} = -50 μA I _{OH} = -50 μA I _{OH} = -4 mA | 2.0 | 1.9 | 2.0 | | 1.9 | | V |
| | | | 3.0 | 2.9 | 3.0 | | 2.9 | | |
| | | | 3.0 | 2.58 | | | 2.48 | | |
| V _{OL} | Low-Level Output Voltage (V _{in} = V _{IH} or V _{IL}) | I _{OL} = 50 μA I _{OL} = 50 μA I _{OL} = 4 mA | 2.0 | | 0.0 | 0.1 | | 0.1 | V |
| | | | 3.0 | | 0.0 | 0.1 | | 0.1 | |
| | | | 3.0 | | | 0.36 | | 0.44 | |
| I _{in} | Input Leakage Current | V _{in} = 5.5 V or GND | 3.6 | | | ±0.1 | | ±1.0 | μA |
| I _{CC} | Quiescent Supply Current | V _{in} = V _{CC} or GND | 3.6 | | | 2.0 | | 20.0 | 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.

MC74LVX08**AC ELECTRICAL CHARACTERISTICS** (Input $t_r = t_f = 3.0$ ns)

| Symbol | Parameter | Test Conditions | $T_A = 25^\circ\text{C}$ | | | $T_A = -40$ to 85°C | | Unit |
|--------------------------|------------------------------------|--|--------------------------|-----|------|-----------------------------------|------|------|
| | | | Min | Typ | Max | Min | Max | |
| t_{PLH} , t_{PHL} | Propagation Delay, Input to Output | $V_{CC} = 2.7\text{V}$ $C_L = 15$ pF | | 6.3 | 11.4 | 1.0 | 13.5 | ns |
| | | $C_L = 50$ pF | | 8.8 | 14.9 | 1.0 | 17.0 | |
| | | $V_{CC} = 3.3 \pm 0.3\text{V}$ $C_L = 15$ pF | | 4.8 | 7.1 | 1.0 | 8.5 | |
| | | $C_L = 50$ pF | | 7.3 | 10.6 | 1.0 | 12.0 | |
| t_{OSHL} t_{OSLH} | Output-to-Output Skew (Note 1) | $V_{CC} = 2.7\text{V}$ $C_L = 50$ pF | | | 1.5 | | 1.5 | ns |
| | | $V_{CC} = 3.3 \pm 0.3\text{V}$ $C_L = 50$ pF | | | 1.5 | | 1.5 | |

1. Skew is defined as the absolute value of the difference between the actual propagation delay for any two separate outputs of the same device. The specification applies to any outputs switching in the same direction, either HIGH-to-LOW (t_{OSHL}) or LOW-to-HIGH (t_{OSLH}); parameter guaranteed by design.

CAPACITIVE CHARACTERISTICS

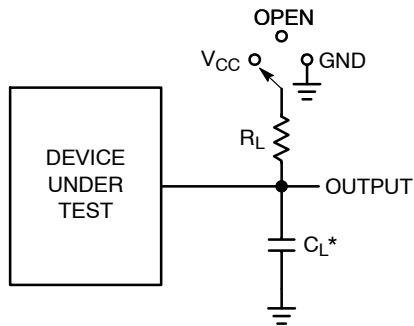
| Symbol | Parameter | $T_A = 25^\circ\text{C}$ | | | $T_A = -40$ to 85°C | | Unit |
|----------|--|--------------------------|-----|-----|-----------------------------------|-----|------|
| | | Min | Typ | Max | Min | Max | |
| C_{in} | Input Capacitance | | 4 | 10 | | 10 | pF |
| C_{PD} | Power Dissipation Capacitance (Note 2) | | 18 | | | | pF |

2. 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: $I_{CC(OPR)} = C_{PD} \cdot V_{CC} \cdot f_{in} + I_{CC}/4$ (per gate). C_{PD} is used to determine the no-load dynamic power consumption; $P_D = C_{PD} \cdot V_{CC}^2 \cdot f_{in} + I_{CC} \cdot V_{CC}$.

NOISE CHARACTERISTICS (Input $t_r = t_f = 3.0$ ns, $C_L = 50$ pF, $V_{CC} = 3.3$ V, Measured in SOIC Package)

| Symbol | Characteristic | $T_A = 25^\circ\text{C}$ | | Unit |
|-----------|--|--------------------------|------|------|
| | | Typ | Max | |
| V_{OLP} | Quiet Output Maximum Dynamic V_{OL} | 0.3 | 0.5 | V |
| V_{OLV} | Quiet Output Minimum Dynamic V_{OL} | -0.3 | -0.5 | V |
| V_{IHD} | Minimum High Level Dynamic Input Voltage | | 2.0 | V |
| V_{ILD} | Maximum Low Level Dynamic Input Voltage | | 0.8 | V |

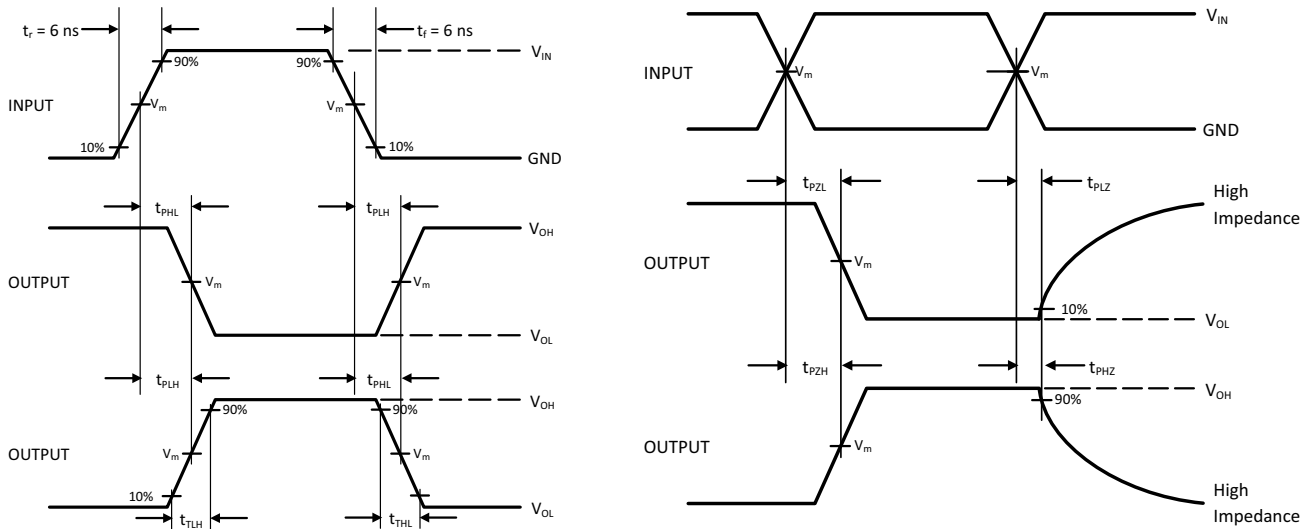
MC74LVX08



*C_L Includes probe and jig capacitance

| Test | Switch Position | C _L | R _L |
|-------------------------------------|-----------------|------------------------------|----------------|
| t _{PLH} / t _{PHL} | Open | See AC Characteristics Table | 1 kΩ |
| t _{PLZ} / t _{PZL} | V _{CC} | | |
| t _{PHZ} / t _{PZH} | GND | | |

Figure 1. Test Circuit



| Device | V _{IN} , V | V _m , V |
|-----------|---------------------|-----------------------|
| MC74LVX08 | V _{CC} | 50% x V _{CC} |

Figure 2. Switching Waveforms

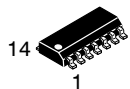
ORDERING INFORMATION

| Device | Marking | Package | Shipping [†] |
|----------------|---------|----------|-----------------------|
| MC74LVX08DR2G | LVX08 | SOIC-14 | 2500 Tape & Reel |
| MC74LVX08DTR2G | LVX08 | TSSOP-14 | 2500 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.



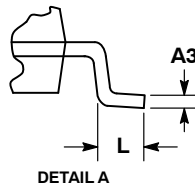
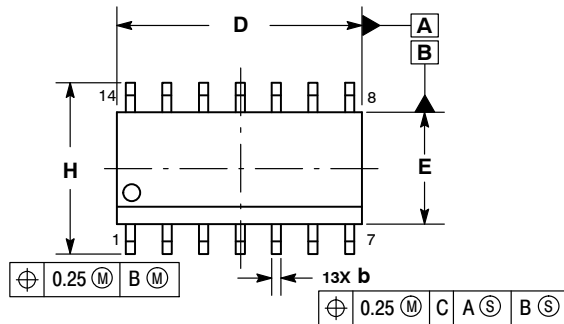
**MECHANICAL CASE OUTLINE
PACKAGE DIMENSIONS**



SCALE 1:1

SOIC-14 NB
CASE 751A-03
ISSUE L

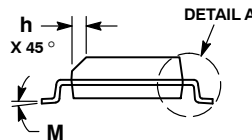
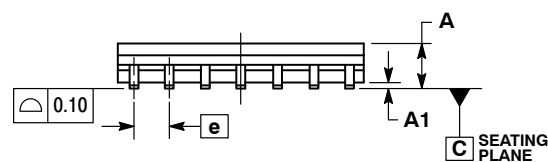
DATE 03 FEB 2016



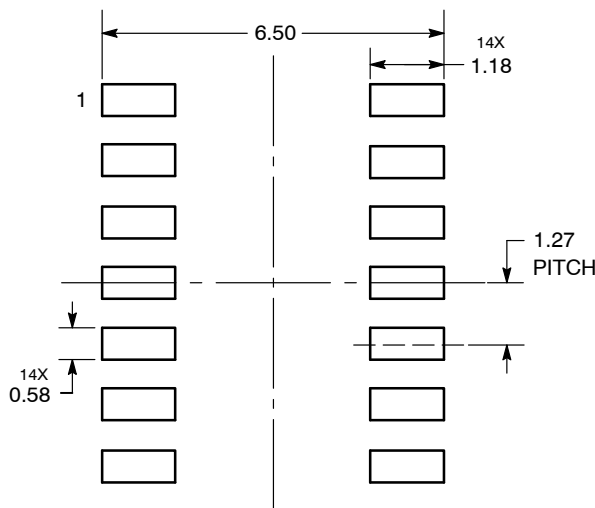
NOTES:

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.

| DIM | MILLIMETERS | | INCHES | |
|-----|-------------|------|-----------|-------|
| | 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° |



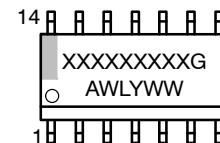
SOLDERING FOOTPRINT*



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*



- XXXXXX = 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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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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| DESCRIPTION: | SOIC-14 NB | PAGE 2 OF 2 |

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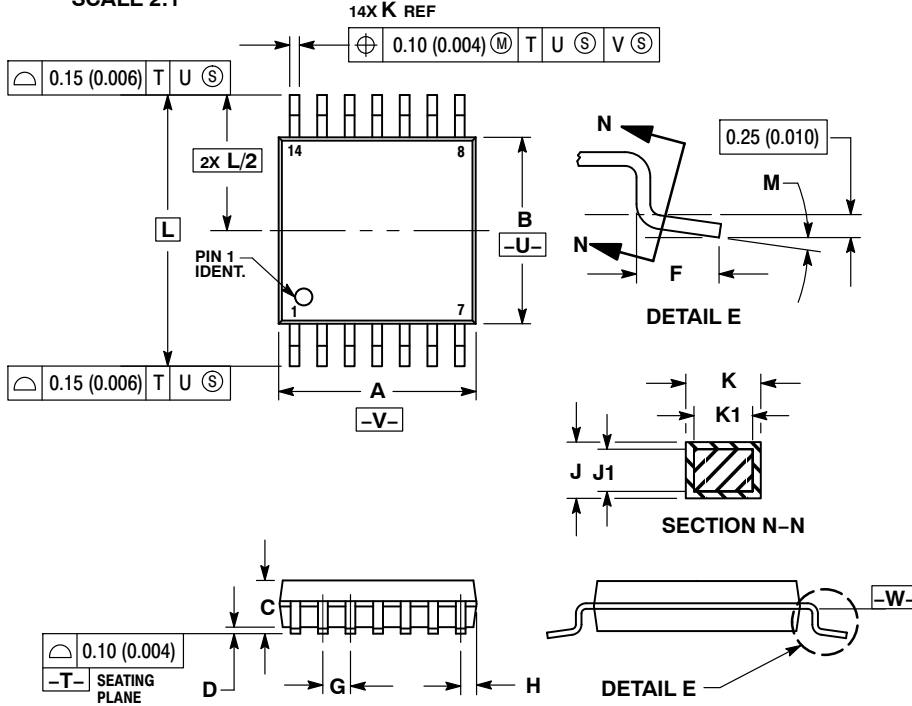
**MECHANICAL CASE OUTLINE
PACKAGE DIMENSIONS**



**TSSOP-14 WB
CASE 948G
ISSUE C**

DATE 17 FEB 2016

SCALE 2:1

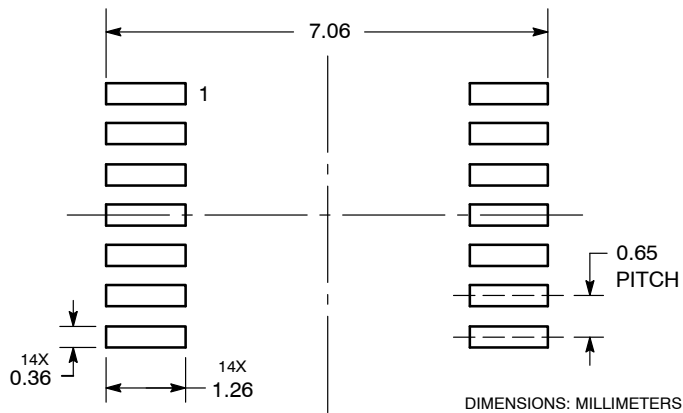


NOTES:

- DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
- CONTROLLING DIMENSION: MILLIMETER.
- 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.
- DIMENSION B DOES NOT INCLUDE INTERLEAD FLASH OR PROTRUSION. INTERLEAD FLASH OR PROTRUSION SHALL NOT EXCEED 0.25 (0.010) PER SIDE.
- 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.
- TERMINAL NUMBERS ARE SHOWN FOR REFERENCE ONLY.
- DIMENSION A AND B ARE TO BE DETERMINED AT DATUM PLANE -W-.

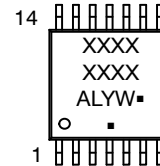
| DIM | MILLIMETERS | | INCHES | |
|-----|-------------|------|-----------|-------|
| | MIN | MAX | MIN | MAX |
| A | 4.90 | 5.10 | 0.193 | 0.200 |
| B | 4.30 | 4.50 | 0.169 | 0.177 |
| C | --- | 1.20 | --- | 0.047 |
| D | 0.05 | 0.15 | 0.002 | 0.006 |
| F | 0.50 | 0.75 | 0.020 | 0.030 |
| G | 0.65 BSC | | 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° |

**RECOMMENDED
SOLDERING FOOTPRINT***



*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***



- 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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