

MC74AC374, MC74ACT374

Octal D-Type Flip-Flop with 3-State Outputs

The MC74AC374/74ACT374 is a high-speed, low-power octal D-type flip-flop featuring separate D-type inputs for each flip-flop and 3-state outputs for bus-oriented applications. A buffered Clock (CP) and Output Enable (\overline{OE}) are common to all flip-flops.

Features

- Buffered Positive Edge-Triggered Clock
- 3-State Outputs for Bus-Oriented Applications
- Outputs Source/Sink 24 mA
- See MC74AC273 for Reset Version
- See MC74AC377 for Clock Enable Version
- See MC74AC373 for Transparent Latch Version
- See MC74AC574 for Broadside Pinout Version
- See MC74AC564 for Broadside Pinout Version with Inverted Outputs
- 'ACT374 Has TTL Compatible Inputs
- These are Pb-Free Devices

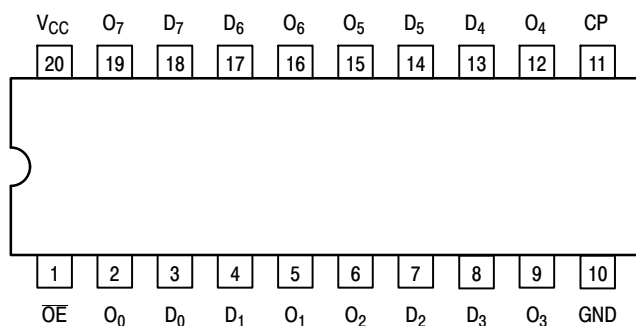


Figure 1. Pinout: 20 Lead Packages Conductors
(Top View)

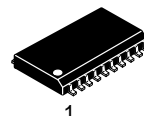
PIN ASSIGNMENT

| PIN | FUNCTION |
|--------------------------------|-----------------------------|
| D ₀ -D ₇ | Data Inputs |
| CP | Clock Pulse Input |
| \overline{OE} | 3-State Output Enable Input |
| O ₀ -O ₇ | 3-State Outputs |

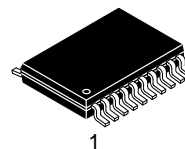


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SOIC-20W
DW SUFFIX
CASE 751D



TSSOP-20
DT SUFFIX
CASE 948E

DEVICE MARKING INFORMATION

See general marking information in the device marking section on page 6 of this data sheet.

ORDERING INFORMATION

See detailed ordering and shipping information in the package dimensions section on page 8 of this data sheet.

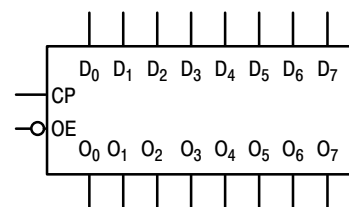


Figure 2. Logic Symbol

MC74AC374, MC74ACT374

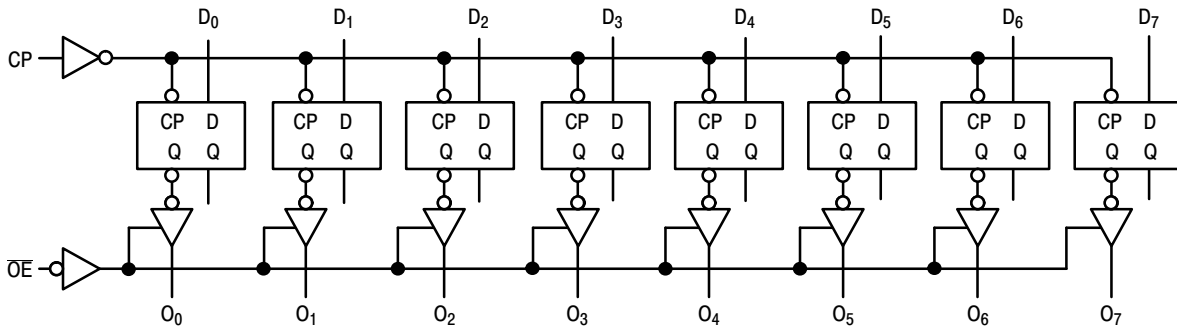
TRUTH TABLE

| Inputs | | | Outputs |
|----------------|----|-----------------|----------------|
| D _n | CP | \overline{OE} | O _n |
| H | ⌋ | L | H |
| L | ⌋ | L | L |
| X | X | H | Z |

H = HIGH Voltage Level
 L = LOW Voltage Level
 X = Immaterial
 Z = High Impedance
 ⌋ = LOW-to-HIGH Transition

FUNCTIONAL DESCRIPTION

The MC74AC374/74ACT374 consists of eight edge-triggered flip-flops with individual D-type inputs and 3-state true outputs. The buffered clock and buffered Output Enable are common to all flip-flops. The eight flip-flops will store the state of their individual D inputs that meet the setup and hold time requirements on the LOW-to-HIGH Clock (CP) transition. With the Output Enable (\overline{OE}) LOW, the contents of the eight flip-flops are available at the outputs. When the \overline{OE} is HIGH, the outputs go to the high impedance state. Operation of the \overline{OE} input does not affect the state of the flip-flops.



NOTE: That this diagram is provided only for the understanding of logic operations and should not be used to estimate propagation delays.

Figure 3. Logic Diagram

MC74AC374, MC74ACT374

MAXIMUM RATINGS

| Symbol | Parameter | Value | Unit |
|----------------------|---|---|------------|
| V _{CC} | DC Supply Voltage (Referenced to GND) | -0.5 to +7.0 | V |
| V _{IN} | DC Input Voltage (Referenced to GND) | -0.5 to V _{CC} +0.5 | V |
| V _{OUT} | DC Output Voltage (Referenced to GND) (Note 1) | -0.5 to V _{CC} +0.5 | V |
| I _{IK} | DC Input Diode Current | ±20 | mA |
| I _{OK} | DC Output Diode Current | ±50 | mA |
| I _{OUT} | DC Output Sink/Source Current | ±50 | mA |
| I _{CC} | DC Supply Current, per Output Pin | ±50 | mA |
| I _{GND} | DC Ground Current, per Output Pin | ±100 | mA |
| T _{STG} | Storage Temperature Range | -65 to +150 | °C |
| T _L | Lead temperature, 1 mm from Case for 10 Seconds | 260 | °C |
| T _J | Junction Temperature Under Bias | 140 | °C |
| θ _{JA} | Thermal Resistance (Note 2) | SOIC TSSOP 65.8 110.7 | °C/W |
| MSL | Moisture Sensitivity | Level 1 | |
| F _R | Flammability Rating | Oxygen Index: 30% – 35% UL 94 V-0 @ 0.125 in | |
| V _{ESD} | ESD Withstand Voltage | Human Body Model (Note 3) Machine Model (Note 4) Charged Device Model (Note 5) > 2000 > 200 > 1000 | V |
| I _{Latchup} | Latchup Performance | Above V _{CC} and Below GND at 85°C (Note 6) | ±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. I_{OUT} absolute maximum rating must be observed.
2. The package thermal impedance is calculated in accordance with JESD 51-7.
3. Tested to EIA/JESD22-A114-A.
4. Tested to EIA/JESD22-A115-A.
5. Tested to JESD22-C101-A.
6. Tested to EIA/JESD78.

RECOMMENDED OPERATING CONDITIONS

| Symbol | Parameter | Min | Typ | Max | Unit | |
|------------------------------------|---|-------------------------|-----|-----------------|------|------|
| V _{CC} | Supply Voltage | 'AC | 2.0 | 5.0 | 6.0 | V |
| | | 'ACT | 4.5 | 5.0 | 5.5 | |
| V _{IN} , V _{OUT} | DC Input Voltage, Output Voltage (Ref. to GND) | 0 | | V _{CC} | V | |
| t _r , t _f | Input Rise and Fall Time (Note 1) 'AC Devices except Schmitt Inputs | V _{CC} @ 3.0 V | – | 150 | – | ns/V |
| | | V _{CC} @ 4.5 V | – | 40 | – | |
| | | V _{CC} @ 5.5 V | – | 25 | – | |
| t _r , t _f | Input Rise and Fall Time (Note 2) 'ACT Devices except Schmitt Inputs | V _{CC} @ 4.5 V | – | 10 | – | ns/V |
| | | V _{CC} @ 5.5 V | – | 8.0 | – | |
| T _A | Operating Ambient Temperature Range | -40 | 25 | 85 | °C | |
| I _{OH} | Output Current – High | – | – | -24 | mA | |
| I _{OL} | Output Current – Low | – | – | 24 | mA | |

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.

1. V_{IN} from 30% to 70% V_{CC}; see individual Data Sheets for devices that differ from the typical input rise and fall times.
2. V_{IN} from 0.8 V to 2.0 V; see individual Data Sheets for devices that differ from the typical input rise and fall times.

MC74AC374, MC74ACT374

DC CHARACTERISTICS

| Symbol | Parameter | V _{CC} (V) | 74AC | | 74AC | | Unit | Conditions |
|------------------|-----------------------------------|------------------------|------------------------|-------------------|---------------------------------|--|------|---|
| | | | T _A = +25°C | | T _A = -40°C to +85°C | | | |
| | | | Typ | Guaranteed Limits | | | | |
| V _{IH} | Minimum High Level Input Voltage | 3.0 | 1.5 | 2.1 | 2.1 | | V | V _{OUT} = 0.1 V or V _{CC} - 0.1 V |
| | | 4.5 | 2.25 | 3.15 | 3.15 | | | |
| | | 5.5 | 2.75 | 3.85 | 3.85 | | | |
| V _{IL} | Maximum Low Level Input Voltage | 3.0 | 1.5 | 0.9 | 0.9 | | V | V _{OUT} = 0.1 V or V _{CC} - 0.1 V |
| | | 4.5 | 2.25 | 1.35 | 1.35 | | | |
| | | 5.5 | 2.75 | 1.65 | 1.65 | | | |
| V _{OH} | Minimum High Level Output Voltage | 3.0 | 2.99 | 2.9 | 2.9 | | V | I _{OUT} = -50 μA |
| | | 4.5 | 4.49 | 4.4 | 4.4 | | | |
| | | 5.5 | 5.49 | 5.4 | 5.4 | | | |
| | | 3.0 | - | 2.56 | 2.46 | | V | *V _{IN} = V _{IL} or V _{IH} -12 mA I _{OH} -24 mA -24 mA |
| | | 4.5 | - | 3.86 | 3.76 | | | |
| | | 5.5 | - | 4.86 | 4.76 | | | |
| V _{OL} | Maximum Low Level Output Voltage | 3.0 | 0.002 | 0.1 | 0.1 | | V | I _{OUT} = 50 μA |
| | | 4.5 | 0.001 | 0.1 | 0.1 | | | |
| | | 5.5 | 0.001 | 0.1 | 0.1 | | | |
| | | 3.0 | - | 0.36 | 0.44 | | V | *V _{IN} = V _{IL} or V _{IH} 12 mA I _{OL} 24 mA 24 mA |
| | | 4.5 | - | 0.36 | 0.44 | | | |
| | | 5.5 | - | 0.36 | 0.44 | | | |
| I _{IN} | Maximum Input Leakage Current | 5.5 | - | ±0.1 | ±1.0 | | μA | V _I = V _{CC} , GND |
| I _{OZ} | Maximum 3-State Current | 5.5 | - | ±0.5 | ±5.0 | | μA | V _I (OE) = V _{IL} , V _{IH} V _I = V _{CC} , GND V _O = V _{CC} , GND |
| I _{OLD} | †Minimum Dynamic Output Current | 5.5 | - | - | 75 | | mA | V _{OLD} = 1.65 V Max |
| I _{OHD} | | 5.5 | - | - | -75 | | mA | V _{OHD} = 3.85 V Min |
| I _{CC} | Maximum Quiescent Supply Current | 5.5 | - | 8.0 | 80 | | μA | V _{IN} = V _{CC} or GND |

*All outputs loaded; thresholds on input associated with output under test.

†Maximum test duration 2.0 ms, one output loaded at a time.

NOTE: I_{IN} and I_{CC} @ 3.0 V are guaranteed to be less than or equal to the respective limit @ 5.5 V V_{CC}.

MC74AC374, MC74ACT374

AC CHARACTERISTICS (For Figures and Waveforms – See AND8277/D at www.onsemi.com)

| Symbol | Parameter | V _{CC} * (V) | 74AC | | | 74AC | | Unit | Fig. No. |
|------------------|---|--------------------------|--|-------------|-------------|--|--------------|------|----------|
| | | | T _A = +25°C C _L = 50 pF | | | T _A = -40°C to +85°C C _L = 50 pF | | | |
| | | | Min | Typ | Max | Min | Max | | |
| f _{max} | Maximum Clock Frequency | 3.3 5.0 | 60 100 | 110 155 | – – | 60 100 | – – | MHz | 3–3 |
| t _{PLH} | Propagation Delay CP to O _n | 3.3 5.0 | 3.0 2.5 | 11 8.0 | 13.5 9.5 | 1.5 1.5 | 15.5 10.5 | ns | 3–6 |
| t _{PHL} | Propagation Delay CP to O _n | 3.3 5.0 | 2.5 2.0 | 10 7.0 | 12.5 9.0 | 2.0 1.5 | 14 10 | ns | 3–6 |
| t _{PZH} | Output Enable Time | 3.3 5.0 | 3.0 2.0 | 9.5 7.0 | 11.5 8.5 | 1.5 1.0 | 13 9.5 | ns | 3–7 |
| t _{PZL} | Output Enable Time | 3.3 5.0 | 2.5 2.0 | 9.0 6.5 | 11.5 8.5 | 1.5 1.0 | 13 9.5 | ns | 3–8 |
| t _{PHZ} | Output Disable Time | 3.3 5.0 | 3.0 2.0 | 10.5 8.0 | 12.5 11 | 2.0 2.0 | 14.5 12.5 | ns | 3–7 |
| t _{PLZ} | Output Disable Time | 3.3 5.0 | 2.0 1.5 | 8.0 6.5 | 11.5 8.5 | 1.0 1.0 | 12.5 10 | ns | 3–8 |

*Voltage Range 3.3 V is 3.3 V ±0.3 V.
Voltage Range 5.0 V is 5.0 V ±0.5 V.

AC OPERATING REQUIREMENTS

| Symbol | Parameter | V _{CC} * (V) | 74AC | | 74AC | | Unit | Fig. No. |
|----------------|---|--------------------------|--|--------------------|--|----|------|----------|
| | | | T _A = +25°C C _L = 50 pF | | T _A = -40°C to +85°C C _L = 50 pF | | | |
| | | | Typ | Guaranteed Minimum | | | | |
| t _s | Setup Time, HIGH or LOW D _n to CP | 3.3 5.0 | 2.0 1.0 | 5.5 4.0 | 6.0 4.5 | ns | 3–9 | |
| t _h | Hold Time, HIGH or LOW D _n to CP | 3.3 5.0 | -1.0 0 | 1.0 1.5 | 1.0 1.5 | ns | 3–9 | |
| t _w | CP Pulse Width HIGH or LOW | 3.3 5.0 | 4.0 2.5 | 5.5 4.0 | 6.0 4.5 | ns | 3–6 | |

*Voltage Range 3.3 V is 3.3 V ±0.3 V.
Voltage Range 5.0 V is 5.0 V ±0.5 V.

MC74AC374, MC74ACT374

DC CHARACTERISTICS

| Symbol | Parameter | V _{CC} (V) | 74ACT | | 74ACT | | Unit | Conditions |
|-------------------|--|------------------------|------------------------|-------------------|---------------------------------|--|------|---|
| | | | T _A = +25°C | | T _A = -40°C to +85°C | | | |
| | | | Typ | Guaranteed Limits | | | | |
| V _{IH} | Minimum High Level Input Voltage | 4.5 | 1.5 | 2.0 | 2.0 | | V | V _{OUT} = 0.1 V or V _{CC} - 0.1 V |
| | | 5.5 | 1.5 | 2.0 | 2.0 | | | |
| V _{IL} | Maximum Low Level Input Voltage | 4.5 | 1.5 | 0.8 | 0.8 | | V | V _{OUT} = 0.1 V or V _{CC} - 0.1 V |
| | | 5.5 | 1.5 | 0.8 | 0.8 | | | |
| V _{OH} | Minimum High Level Output Voltage | 4.5 | 4.49 | 4.4 | 4.4 | | V | I _{OUT} = -50 μA |
| | | 5.5 | 5.49 | 5.4 | 5.4 | | | |
| | | 4.5 | - | 3.86 | 3.76 | | V | *V _{IN} = V _{IL} or V _{IH} I _{OH} -24 mA -24 mA |
| | | 5.5 | - | 4.86 | 4.76 | | | |
| V _{OL} | Maximum Low Level Output Voltage | 4.5 | 0.001 | 0.1 | 0.1 | | V | I _{OUT} = 50 μA |
| | | 5.5 | 0.001 | 0.1 | 0.1 | | | |
| | | 4.5 | - | 0.36 | 0.44 | | V | *V _{IN} = V _{IL} or V _{IH} I _{OL} 24 mA 24 mA |
| | | 5.5 | - | 0.36 | 0.44 | | | |
| I _{IN} | Maximum Input Leakage Current | 5.5 | - | ±0.1 | ±1.0 | | μA | V _I = V _{CC} , GND |
| ΔI _{CCT} | Additional Max. I _{CC} /Input | 5.5 | 0.6 | - | 1.5 | | mA | V _I = V _{CC} - 2.1 V |
| I _{OZ} | Maximum 3-State Current | 5.5 | - | ±0.5 | ±5.0 | | μA | V _I (OE) = V _{IL} , V _{IH} V _I = V _{CC} , GND V _O = V _{CC} , GND |
| I _{OLD} | †Minimum Dynamic Output Current | 5.5 | - | - | 75 | | mA | V _{OLD} = 1.65 V Max |
| I _{OHD} | | 5.5 | - | - | -75 | | mA | V _{OHD} = 3.85 V Min |
| I _{CC} | Maximum Quiescent Supply Current | 5.5 | - | 8.0 | 80 | | μA | V _{IN} = V _{CC} or GND |

*All outputs loaded; thresholds on input associated with output under test.

†Maximum test duration 2.0 ms, one output loaded at a time.

AC CHARACTERISTICS (For Figures and Waveforms – See AND8277/D at www.onsemi.com)

| Symbol | Parameter | V _{CC} * (V) | 74ACT | | | 74ACT | | Unit | Fig. No. |
|------------------|--|--------------------------|--|-----|------|---|------|------|----------|
| | | | T _A = +25°C C _L = 50 pF | | | T _A = -40°C to +85°C C _L = 50 pF | | | |
| | | | Min | Typ | Max | Min | Max | | |
| f _{max} | Maximum Clock Frequency | 5.0 | 100 | 160 | - | 90 | - | MHz | 3-3 |
| t _{PLH} | Propagation Delay CP to O _n | 5.0 | 2.0 | 8.5 | 10 | 2.0 | 11.5 | ns | 3-6 |
| t _{PHL} | Propagation Delay CP to O _n | 5.0 | 2.0 | 8.0 | 9.5 | 1.5 | 11 | ns | 3-6 |
| t _{PZH} | Output Enable Time | 5.0 | 2.0 | 8.0 | 9.5 | 1.5 | 10.5 | ns | 3-7 |
| t _{PZL} | Output Enable Time | 5.0 | 1.5 | 8.0 | 9.0 | 1.5 | 10.5 | ns | 3-8 |
| t _{PHZ} | Output Disable Time | 5.0 | 1.5 | 8.5 | 11.5 | 1.0 | 12.5 | ns | 3-7 |
| t _{PLZ} | Output Disable Time | 5.0 | 1.5 | 7.0 | 8.5 | 1.0 | 10 | ns | 3-8 |

*Voltage Range 5.0 V is 5.0 V ±0.5 V.

MC74AC374, MC74ACT374

AC OPERATING REQUIREMENTS (For Figures and Waveforms – See AND8277/D at www.onsemi.com)

| Symbol | Parameter | V _{CC} * (V) | 74ACT | | 74ACT | | Unit | Fig. No. |
|----------------|---|--------------------------|--|--------------------|--|----|------|----------|
| | | | T _A = +25°C C _L = 50 pF | | T _A = -40°C to +85°C C _L = 50 pF | | | |
| | | | Typ | Guaranteed Minimum | | | | |
| t _s | Setup Time, HIGH or LOW D _n to CP | 5.0 | 1.0 | 5.0 | 5.5 | ns | 3-9 | |
| t _h | Hold Time, HIGH or LOW D _n to CP | 5.0 | 0 | 1.5 | 1.5 | ns | 3-9 | |
| t _w | CP Pulse Width HIGH or LOW | 5.0 | 2.5 | 5.0 | 5.0 | ns | 3-6 | |

*Voltage Range 5.0 V is 5.0 V ±0.5 V.

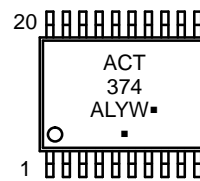
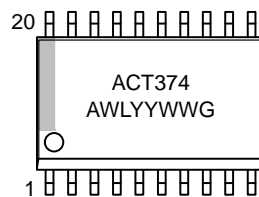
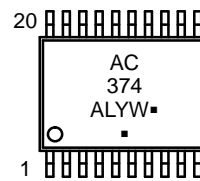
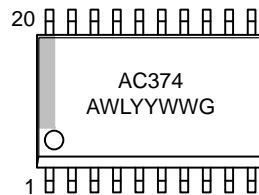
CAPACITANCE

| Symbol | Parameter | Value Typ | Unit | Test Conditions |
|-----------------|-------------------------------|--------------|------|-------------------------|
| C _{IN} | Input Capacitance | 4.5 | pF | V _{CC} = 5.0 V |
| C _{PD} | Power Dissipation Capacitance | 80 | pF | V _{CC} = 5.0 V |

MARKING DIAGRAMS

SOIC-20W

TSSOP-20



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

MC74AC374, MC74ACT374

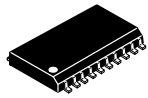
ORDERING INFORMATION

| Device | Package | Shipping† |
|-----------------|-----------------------|--------------------|
| MC74AC374DWG | SOIC-20 (Pb-Free) | 38 Units / Rail |
| MC74AC374DWR2G | SOIC-20 (Pb-Free) | 1000 / Tape & Reel |
| MC74ACT374DWG | SOIC-20 (Pb-Free) | 38 Units / Rail |
| MC74ACT374DWR2G | SOIC-20 (Pb-Free) | 1000 / Tape & Reel |
| MC74AC374DTR2G | TSSOP-20 (Pb-Free) | 2500 / Tape & Reel |
| MC74ACT374DTR2G | TSSOP-20 (Pb-Free) | 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

ON Semiconductor®



SCALE 1:1

SOIC-20 WB
CASE 751D-05
ISSUE H

DATE 22 APR 2015

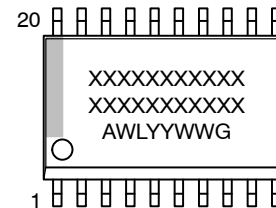


NOTES:

1. DIMENSIONS ARE IN MILLIMETERS.
2. INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M, 1994.
3. DIMENSIONS D AND E DO NOT INCLUDE MOLD PROTRUSION.
4. MAXIMUM MOLD PROTRUSION 0.15 PER SIDE.
5. DIMENSION B DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE PROTRUSION SHALL BE 0.13 TOTAL IN EXCESS OF B DIMENSION AT MAXIMUM MATERIAL CONDITION.

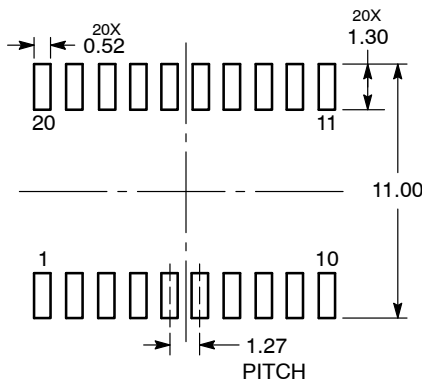
| DIM | MILLIMETERS | |
|-----|-------------|-------|
| | MIN | MAX |
| A | 2.35 | 2.65 |
| A1 | 0.10 | 0.25 |
| b | 0.35 | 0.49 |
| c | 0.23 | 0.32 |
| D | 12.65 | 12.95 |
| E | 7.40 | 7.60 |
| e | 1.27 BSC | |
| H | 10.05 | 10.55 |
| h | 0.25 | 0.75 |
| L | 0.50 | 0.90 |
| θ | 0° | 7° |

GENERIC MARKING DIAGRAM*



- XXXXXX = Specific Device Code
- A = Assembly Location
- WL = Wafer Lot
- YY = Year
- WW = Work Week
- G = Pb-Free Package

RECOMMENDED 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.

*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.

| | | |
|------------------|-------------|--|
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| DESCRIPTION: | SOIC-20 WB | PAGE 1 OF 1 |

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MECHANICAL CASE OUTLINE

PACKAGE DIMENSIONS

ON Semiconductor®



TSSOP-20 WB
CASE 948E
ISSUE D

DATE 17 FEB 2016

SCALE 2:1



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-.

| DIM | MILLIMETERS | | INCHES | |
|-----|-------------|------|-----------|-------|
| | MIN | MAX | MIN | MAX |
| A | 6.40 | 6.60 | 0.252 | 0.260 |
| 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 | 0.27 | 0.37 | 0.011 | 0.015 |
| 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



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.

| | | |
|------------------|-------------|--|
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