# Low-Voltage CMOS Octal Buffer Flow Through Pinout

# With 5 V-Tolerant Inputs and Outputs (3-State, Non-Inverting)

The MC74LCX541 is a high performance, non–inverting octal buffer operating from a 2.3 to 3.6 V supply. This device is similar in function to the MC74LCX244, while providing flow through architecture. High impedance TTL compatible inputs significantly reduce current loading to input drivers while TTL compatible outputs offer improved switching noise performance. A  $V_{\rm I}$  specification of 5.5 V allows MC74LCX541 inputs to be safely driven from 5 V devices. The MC74LCX541 is suitable for memory address driving and all TTL level bus oriented transceiver applications.

Current drive capability is 24 mA at the outputs. The Output Enable  $(\overline{OE1}, \overline{OE2})$  inputs, when HIGH, disables the output by placing them in a HIGH Z condition.

#### **Features**

- Designed for 2.3 to 3.6 V V<sub>CC</sub> Operation
- 5 V Tolerant Interface Capability With 5 V TTL Logic
- Supports Live Insertion and Withdrawal
- $I_{OFF}$  Specification Guarantees High Impedance When  $V_{CC} = 0 \text{ V}$
- LVTTL Compatible
- LVCMOS Compatible
- 24 mA Balanced Output Sink and Source Capability
- Near Zero Static Supply Current in All Three Logic States (10 μA) Substantially Reduces System Power Requirements
- Latchup Performance Exceeds 500 mA
- ESD Performance:
  - ♦ Human Body Model > 2000 V
  - ♦ Machine Model > 200 V
- 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



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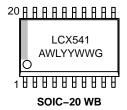


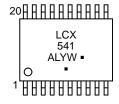




TSSOP-20 DT SUFFIX CASE 948E

### **MARKING DIAGRAMS**





### TSSOP-20

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 in the package dimensions section on page 6 of this data sheet.

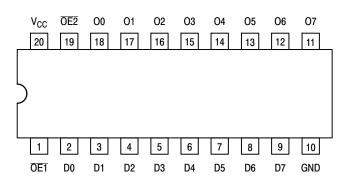


Figure 1. Pinout: 20-Lead (Top View)

# **PIN NAMES**

| Pins           | Function             |
|----------------|----------------------|
| <del>OEn</del> | Output Enable Inputs |
| Dn             | Data Inputs          |
| On             | 3-State Outputs      |

# **TRUTH TABLE**

|     | Inputs |    | Outputs |
|-----|--------|----|---------|
| OE1 | OE2    | Dn | On      |
| L   | L      | L  | L       |
| L   | L      | Н  | Н       |
| Х   | Н      | Х  | Z       |
| Н   | Х      | Х  | Z       |

H = High Voltage Level; L = Low Voltage Level; Z = High Impedance State; X = High or Low Voltage Level and Transitions are Acceptable, for  $I_{CC}$  reasons, DO NOT FLOAT Inputs

# **MAXIMUM RATINGS**

| Symbol           | Parameter                        | Value                             | Condition                        | Units |
|------------------|----------------------------------|-----------------------------------|----------------------------------|-------|
| V <sub>CC</sub>  | DC Supply Voltage                | -0.5 to +7.0                      |                                  | V     |
| VI               | DC Input Voltage                 | -0.5 ≤ V <sub>I</sub> ≤ +7.0      |                                  | V     |
| Vo               | DC Output Voltage                | $-0.5 \le V_O \le +7.0$           | Output in 3–State                | V     |
|                  |                                  | $-0.5 \le V_{O} \le V_{CC} + 0.5$ | (Note 1)                         | V     |
| I <sub>IK</sub>  | DC Input Diode Current           | -50                               | V <sub>I</sub> < GND             | mA    |
| I <sub>OK</sub>  | DC Output Diode Current          | -50                               | V <sub>O</sub> < GND             | mA    |
|                  |                                  | +50                               | V <sub>O</sub> > V <sub>CC</sub> | mA    |
| Io               | DC Output Source/Sink Current    | ±50                               |                                  | mA    |
| I <sub>CC</sub>  | DC Supply Current Per Supply Pin | ±100                              |                                  | mA    |
| I <sub>GND</sub> | DC Ground Current Per Ground Pin | ±100                              |                                  | mA    |
| T <sub>STG</sub> | Storage Temperature Range        | -65 to +150                       |                                  | °C    |
| MSL              | Moisture Sensitivity             |                                   | Level 1                          |       |

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.

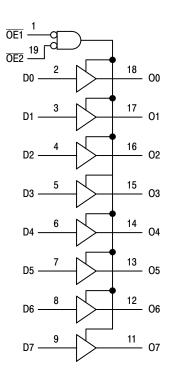


Figure 2. Logic Diagram

<sup>1.</sup> Output in HIGH or LOW State.  $I_{\rm O}$  absolute maximum rating must be observed.

# **RECOMMENDED OPERATING CONDITIONS**

| Symbol          | Parameter  | Min        | Тур        | Max                    | Units |
|-----------------|--|------------|------------|------------------------|-------|
| V <sub>CC</sub> | Supply Voltage Operating Data Retention Only                                       | 2.0<br>1.5 | 3.3<br>3.3 | 3.6<br>3.6             | V     |
| VI              | Input Voltage  | 0          |            | 5.5                    | V     |
| Vo              | Output Voltage (HIGH or LOW State) (3-State)                                       | 0 0        |            | V <sub>CC</sub><br>5.5 | V     |
| I <sub>OH</sub> | HIGH Level Output Current, V <sub>CC</sub> = 3.0 V – 3.6 V                         |            |            | -24                    | mA    |
| I <sub>OL</sub> | LOW Level Output Current, V <sub>CC</sub> = 3.0 V – 3.6 V                          |            |            | 24                     | mA    |
| I <sub>OH</sub> | HIGH Level Output Current, V <sub>CC</sub> = 2.7 V - 3.0 V                         |            |            | -12                    | mA    |
| I <sub>OL</sub> | LOW Level Output Current, V <sub>CC</sub> = 2.7 V – 3.0 V                          |            |            | 12                     | mA    |
| T <sub>A</sub>  | Operating Free-Air Temperature   | -40        |            | +85                    | °C    |
| Δt/ΔV           | Input Transition Rise or Fall Rate, $V_{IN}$ from 0.8 V to 2.0 V, $V_{CC}$ = 3.0 V | 0          |            | 10                     | 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

|                  |                                       |   | $T_A = -40^{\circ}C \text{ to } +85^{\circ}C$ |      |       |
|------------------|---------------------------------------|---|---|------|-------|
| Symbol           | Characteristic                        | Condition   | Min   | Max  | Units |
| V <sub>IH</sub>  | HIGH Level Input Voltage (Note 2)     | 2.7 V ≤ V <sub>CC</sub> ≤ 3.6 V   | 2.0   |      | V     |
| V <sub>IL</sub>  | LOW Level Input Voltage (Note 2)      | 2.7 V ≤ V <sub>CC</sub> ≤ 3.6 V   |   | 0.8  | V     |
| V <sub>OH</sub>  | HIGH Level Output Voltage             | $2.7 \text{ V} \le \text{V}_{CC} \le 3.6 \text{ V}; \text{I}_{OH} = -100 \mu\text{A}$               | V <sub>CC</sub> – 0.2                         |      | V     |
|                  |                                       | $V_{CC} = 2.7 \text{ V; } I_{OH} = -12 \text{ mA}$  | 2.2   |      |       |
|                  |                                       | $V_{CC} = 3.0 \text{ V}; I_{OH} = -18 \text{ mA}$   | 2.4   |      |       |
|                  |                                       | $V_{CC} = 3.0 \text{ V; } I_{OH} = -24 \text{ mA}$  | 2.2   |      |       |
| V <sub>OL</sub>  | LOW Level Output Voltage              | $2.7 \text{ V} \le \text{V}_{CC} \le 3.6 \text{ V}; \text{I}_{OL} = 100 \mu\text{A}$                |   | 0.2  | V     |
|                  |                                       | V <sub>CC</sub> = 2.7 V; I <sub>OL</sub> = 12 mA  |   | 0.4  |       |
|                  |                                       | $V_{CC} = 3.0 \text{ V; } I_{OL} = 16 \text{ mA}$   |   | 0.4  |       |
|                  |                                       | $V_{CC} = 3.0 \text{ V; } I_{OL} = 24 \text{ mA}$   |   | 0.55 |       |
| I <sub>OZ</sub>  | 3-State Output Current                | $V_{CC} = 3.6 \text{ V}, V_{IN} = V_{IH} \text{ or } V_{IL}, V_{OUT} = 0 \text{ to } 5.5 \text{ V}$ |   | ±5   | μΑ    |
| I <sub>OFF</sub> | Power Off Leakage Current             | $V_{CC} = 0$ , $V_{IN} = 5.5 \text{ V or } V_{OUT} = 5.5 \text{ V}$                                 |   | 10   | μΑ    |
| I <sub>IN</sub>  | Input Leakage Current                 | V <sub>CC</sub> = 3.6 V, V <sub>IN</sub> = 5.5 V or GND   |   | ±5   | μΑ    |
| I <sub>CC</sub>  | Quiescent Supply Current              | V <sub>CC</sub> = 3.6 V, V <sub>IN</sub> = 5.5 V or GND   |   | 10   | μΑ    |
| $\Delta I_{CC}$  | Increase in I <sub>CC</sub> per Input | $2.3 \le V_{CC} \le 3.6 \text{ V}; V_{IH} = V_{CC} - 0.6 \text{ V}$                                 |   | 500  | 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.

2. These values of V<sub>I</sub> are used to test DC electrical characteristics only.

# AC ELECTRICAL CHARACTERISTICS (t\_R = t\_F = 2.5 ns; $C_L$ = 50 pF; $R_L$ = 500 $\Omega$ )

|  |  |          | Limits                |              |                         |       |
|--|--|----------|-----------------------|--------------|-------------------------|-------|
|  |  |          | T <sub>A</sub>        | = -40°C to + | 85°C                    |       |
|  |  |          | V <sub>CC</sub> = 3.0 | V to 3.6 V   | V <sub>CC</sub> = 2.7 V |       |
| Symbol                                 | Parameter                                      | Waveform | Min                   | Max          | Max                     | Units |
| t <sub>PLH</sub><br>t <sub>PHL</sub>   | Propagation Delay<br>Input to Output           | 1        | 1.5<br>1.5            | 6.5<br>6.5   | 7.5<br>7.5              | ns    |
| t <sub>PZH</sub><br>t <sub>PZL</sub>   | Output Enable Time to<br>High and Low Level    | 2        | 1.5<br>1.5            | 8.5<br>8.5   | 9.5<br>9.5              | ns    |
| t <sub>PHZ</sub><br>t <sub>PLZ</sub>   | Output Disable Time From<br>High and Low Level | 2        | 1.5<br>1.5            | 7.5<br>7.5   | 8.5<br>8.5              | ns    |
| t <sub>OSHL</sub><br>t <sub>OSLH</sub> | Output-to-Output Skew (Note 3)                 |          |                       | 1.0<br>1.0   |                         | ns    |

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<sub>OSHL</sub>) or LOW-to-HIGH (t<sub>OSLH</sub>); parameter guaranteed by design.

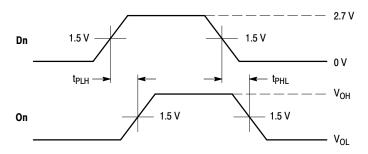
# **DYNAMIC SWITCHING CHARACTERISTICS**

|                  |                                     |   | T <sub>A</sub> = +25°C |     |     |       |
|------------------|-------------------------------------|---|------------------------|-----|-----|-------|
| Symbol           | Characteristic                      | Condition   | Min                    | Тур | Max | Units |
| V <sub>OLP</sub> | Dynamic LOW Peak Voltage (Note 4)   | $V_{CC} = 3.3 \text{ V}, C_L = 50 \text{ pF}, V_{IH} = 3.3 \text{ V}, V_{IL} = 0 \text{ V}$ |                        | 0.8 |     | V     |
| V <sub>OLV</sub> | Dynamic LOW Valley Voltage (Note 4) | $V_{CC} = 3.3 \text{ V}, C_L = 50 \text{ pF}, V_{IH} = 3.3 \text{ V}, V_{IL} = 0 \text{ V}$ |                        | 0.8 |     | V     |

<sup>4.</sup> Number of outputs defined as "n". Measured with "n-1" outputs switching from HIGH-to-LOW or LOW-to-HIGH. The remaining output is measured in the LOW state.

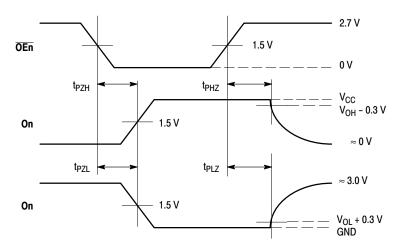
# **CAPACITIVE CHARACTERISTICS**

| Symbol           | Parameter                     | Condition  | Typical | Units |
|------------------|-------------------------------|--|---------|-------|
| C <sub>IN</sub>  | Input Capacitance             | $V_{CC} = 3.3 \text{ V}, V_{I} = 0 \text{ V or } V_{CC}$ | 7       | pF    |
| C <sub>OUT</sub> | Output Capacitance            | $V_{CC} = 3.3 \text{ V}, V_{I} = 0 \text{ V or } V_{CC}$ | 8       | pF    |
| $C_{PD}$         | Power Dissipation Capacitance | 10 MHz, $V_{CC}$ = 3.3 V, $V_I$ = 0 V or $V_{CC}$        | 25      | pF    |



# **WAVEFORM 1 - PROPAGATION DELAYS**

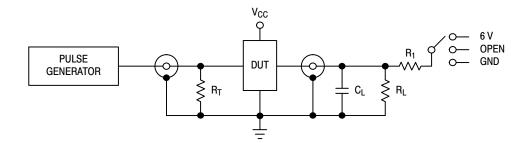
 $t_R = t_F = 2.5 \text{ ns}, 10\% \text{ to } 90\%; f = 1 \text{ MHz}; t_W = 500 \text{ ns}$ 



# WAVEFORM 2 - OUTPUT ENABLE AND DISABLE TIMES

 $t_{R}$  =  $t_{F}$  = 2.5 ns, 10% to 90%; f = 1 MHz;  $t_{W}$  = 500 ns

Figure 3. AC Waveforms



| Test   | Switch |
|--|--------|
| t <sub>PLH</sub> , t <sub>PHL</sub>                        | Open   |
| t <sub>PZL</sub> , t <sub>PLZ</sub>                        | 6 V    |
| Open Collector/Drain t <sub>PLH</sub> and t <sub>PHL</sub> | 6 V    |
| t <sub>PZH</sub> , t <sub>PHZ</sub>                        | GND    |

C<sub>L</sub> = 50 pF or equivalent (Includes jig and probe capacitance)

 $R_L = R_1 = 500 \Omega$  or equivalent  $R_T = Z_{OUT}$  of pulse generator (typically 50  $\Omega$ )

Figure 4. Test Circuit

# **ORDERING INFORMATION**

| Device                             | Package               | Shipping <sup>†</sup> |
|------------------------------------|-----------------------|-----------------------|
| MC74LCX541DWR2G                    | SOIC-20<br>(Pb-Free)  | 1000 Tape & Reel      |
| NLV74LCX541DWR2G* (In Development) | SOIC-20<br>(Pb-Free)  | 1000 Tape & Reel      |
| MC74LCX541DWG                      | SOIC-20<br>(Pb-Free)  | 38 Units / Rail       |
| NLV74LCX541DWG* (In Development)   | SOIC-20<br>(Pb-Free)  | 38 Units / Rail       |
| MC74LCX541DTG                      | TSSOP-20<br>(Pb-Free) | 75 Units / Rail       |
| NLV74LCX541DTG* (In Development)   | TSSOP-20<br>(Pb-Free) | 75 Units / Rail       |
| MC74LCX541DTR2G                    | TSSOP-20<br>(Pb-Free) | 2500 Tape & Reel      |
| NLV74LCX541DTR2G* (In Development) | TSSOP-20<br>(Pb-Free) | 2500 Tape & Reel      |

<sup>†</sup>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.
\*NLV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC–Q100 Qualified and PPAP

Capable.

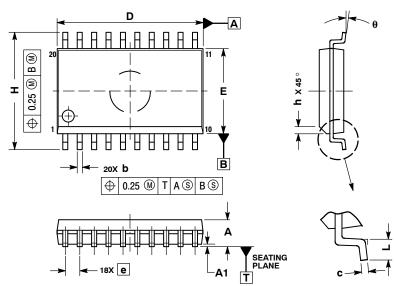




SOIC-20 WB CASE 751D-05 **ISSUE H** 

**DATE 22 APR 2015** 

## SCALE 1:1



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

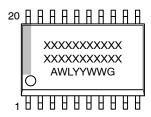
|     | MILLIMETERS |       |  |  |
|-----|-------------|-------|--|--|
| DIM | MIN         | MAX   |  |  |
| Α   | 2.35        | 2.65  |  |  |
| A1  | 0.10        | 0.25  |  |  |
| b   | 0.35        | 0.49  |  |  |
| С   | 0.23        | 0.32  |  |  |
| D   | 12.65       | 12.95 |  |  |
| E   | 7.40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

# **RECOMMENDED SOLDERING FOOTPRINT\***



DIMENSIONS: MILLIMETERS

# **GENERIC MARKING DIAGRAM\***



XXXXX = Specific Device Code = Assembly Location

WL = Wafer Lot ΥY = Year WW = Work Week = 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.

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<sup>\*</sup>For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.



# TSSOP-20 WB CASE 948E ISSUE D

**DATE 17 FEB 2016** 





#### NOTES:

- DIMENSIONING AND TOLERANCING PER
- ANSI Y14.5M, 1982.
  2. CONTROLLING DIMENSION: MILLIMETER.
- 3. DIMENSION A DOES NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS.
- 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
- (0.003) TOTAL IN EXCESS OF THE K DIMENSION AT MAXIMUM MATERIAL CONDITION.
- 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   |
| Α   | 6.40        | 6.60 | 0.252     | 0.260 |
| В   | 4.30        | 4.50 | 0.169     | 0.177 |
| С   |             | 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 |       |
| Н   | 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\***



= Assembly Location

= Wafer Lot

= Year

= 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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