

Low-Voltage CMOS Hex Inverter with Open Drain Outputs

With 5 V - Tolerant Inputs

MC74LCX06

The MC74LCX06 is a high performance hex inverter operating from a 1.65 V to 5.5 V supply. High impedance TTL compatible inputs significantly reduce current loading to input drivers. These LCX devices have open drain outputs which provide the ability to set output levels, or do active-HIGH AND or active-LOW OR functions. A $V_{\rm I}$ specification of 5.5 V allows MC74LCX06 inputs to be safely driven from 5.0 V devices.

Features

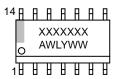
- Designed for 1.65 V to 5.5 V V_{CC} Operation
- 5.0 V Tolerant Inputs/Outputs
- LVTTL Compatible
- LVCMOS Compatible
- 24 mA Output Sink Capability @ 3.0 V
- Near Zero Static Supply Current (10 μA) Substantially Reduces System Power Requirements
- Latchup Performance Exceeds 100 mA
- Wired-OR, Wired-AND
- Output Level Can Be Set Externally Without Affecting Speed of Device
- Functionally Compatible with LCX05
- ESD Performance: Human Body Model >2000 V
- These Devices are Pb-Free, Halogen Free/BFR Free and are RoHS Compliant

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MARKING DIAGRAMS



SOIC-14 D SUFFIX CASE 751A





TSSOP-14 DT SUFFIX CASE 948G



XXXXXX = Specific Device Code 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 6 of this data sheet.

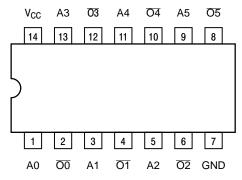


Figure 1. Pinout: 14-Lead (Top View)

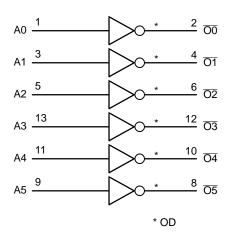


Figure 2. Logic Diagram

Table 1. PIN NAMES

Pins	Function	
An	Data Inputs	
On	Outputs	

Table 2. TRUTH TABLE

An	On
Н	Z L

MAXIMUM RATINGS

Symbol	Parameter		Value	Unit
V _{CC}	DC Supply Voltage		-0.5 to +6.5	V
V _I	DC Input Voltage (Note 1)		-0.5 to +6.5	V
Vo		ve-Mode (High or Low State) Tri-State Mode wer-Down Mode (V _{CC} = 0 V)	-0.5 to V _{CC} + 0.5 -0.5 to +6.5 -0.5 to +6.5	V
I _{IK}	DC Input Diode Current	V _I < GND	-50	mA
I _{OK}	DC Output Diode Current	V _O < GND	-50	mA
Io	DC Output Source/Sink Current		±50	mA
I _{CC} or I _{GND}	DC Supply Current per Supply Pin or Ground Pin		±100	mA
T _{STG}	Storage Temperature Range		-65 to +150	°C
TL	Lead Temperature, 1 mm from Case for 10 secs		260	°C
TJ	Junction Temperature Under Bias		+150	°C
$\theta_{\sf JA}$	Thermal Resistance (Note 1)	SOIC-14 QFN14 TSSOP-14	116 130 150	°C/W
P _D	Power Dissipation in Still Air at 125°C	SOIC-14 QFN14 TSSOP-14	1077 962 833	mW
MSL	Moisture Sensitivity		Level 1	-
F _R	Flammability Rating	Oxygen Index: 28 to 34	UL 94 V-0 @ 0.125 in	-
V _{ESD}	ESD Withstand Voltage (Note 3)	Human Body Model Charged Device Model	2000 N/A	V

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. Io absolute maximum rating must be observed.

2. Measured with minimum pad spacing on an FR4 board, using 76 mm-by-114 mm, 2-ounce copper trace no air flow per JESD51–7.

3. HBM tested to EIA / JESD22-A114-A. CDM tested to JESD22-C101-A. JEDEC recommends that ESD qualification to EIA/JESD22-A115A

- (Machine Model) be discontinued.

RECOMMENDED OPERATING CONDITIONS

Symbol	Parameter		Min	Тур	Max	Unit
V _{CC}	Supply Voltage	Operating Data Retention Only	1.65 1.5	3.3 3.3	5.5 5.5	V
VI	Digital Input Voltage		0	_	5.5	V
V _O	Output Voltage	Active Mode (High or Low State) Tri-State Mode Power Down Mode (V _{CC} = 0 V)	0 0 0	- - -	V _{CC} 5.5 5.5	V
T _A	Operating Free-Air Temperature		-40	_	+125	°C
t _r , t _f	Input Rise or Fall Rate	$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V} \\ V_{CC} = 2.3 \text{ V to } 2.7 \text{ V} \\ V_{I} \text{ from } 0.8 \text{ V to } 2.0 \text{ V}, V_{CC} = 3.0 \text{ V} \\ V_{CC} = 4.5 \text{ V to } 5.5 \text{ V} \\ \end{cases}$	0 0 0 0	- - -	20 20 10 5	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.

4. Unused inputs must always be tied to an appropriate logic voltage level (e.g., either GND or V_{CC}). Unused outputs must be left open.

DC ELECTRICAL CHARACTERISTICS

				$T_A = -40 ^{\circ}\text{C} \text{ to } +85 ^{\circ}\text{C}$		T _A = -40 °C	C to +125 °C	
Symbol	Parameter	Conditions	V _{CC} (V)	Min	Max	Min	Max	Unit
V _{IH}	HIGH Level Input Voltage		1.65 – 1.95	0.65 x V _{CC}	-	0.65 x V _{CC}	-	٧
			2.3 – 2.7	1.7	-	1.7	-	
			3.0 – 3.6	2.0	-	2.0	-	
			4.5 - 5.5	0.70 x V _{CC}	-	0.70 x V _{CC}	-	
V_{IL}	LOW Level Input Voltage		1.65 – 1.95	_	0.35 x V _{CC}	-	0.35 x V _{CC}	V
			2.3 – 2.7	-	0.7	-	0.7	
			3.0 – 3.6	-	0.8	-	0.8	
			4.5 - 5.5	-	0.30 x V _{CC}	-	0.30 x V _{CC}	
V _{OL}	Low-Level Output Voltage	$V_I = V_{IH} \text{ or } V_{IL}$ $I_{OL} = 100 \mu\text{A}$ $I_{OL} = 4 \text{ mA}$ $I_{OL} = 8 \text{ mA}$ $I_{OL} = 12 \text{ mA}$ $I_{OL} = 16 \text{ mA}$ $I_{OL} = 24 \text{ mA}$ $I_{OL} = 32 \text{ mA}$	1.65 to 5.5 1.65 2.3 2.7 3.0 3.0 4.5	- - - - -	0.1 0.24 0.3 0.4 0.4 0.55	- - - - -	0.1 0.24 0.3 0.4 0.4 0.55	V
Ι _Ι	Input Leakage Current	$V_I = 0 \text{ to } 5.5 \text{ V}$	3.6	-	±5.0	-	±5.0	μΑ
I _{OFF}	Power Off Leakage Current	$V_1 = 5.5 \text{ V or}$ $V_0 = 5.5 \text{ V}$	0	-	10	-	10	μΑ
l _{OZ}	3-State Output Leakage Current	$V_I = V_{IH} \text{ or } V_{IL},$ $V_O = 0 \text{ to } 5.5 \text{ V}$	3.6	-	±5.0	-	±5.0	μΑ
I _{CC}	Quiescent Supply Current	V _I = 5.5 V or GND	3.6	_	10	-	10	μΑ
Δl_{CC} Increase in l_{CC} per Input	One input at V _{CC} –	2.3 to 3.6	-	500	-	500	μΑ	
	Input	0.6 V, other inputs at V _{CC} or GND	4.5 to 5.5	-	1.0	-	1.0	mA
		One input at 3.125 V, other inputs at V _{CC} or GND	5.25	-	10	-	10	

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.

AC ELECTRICAL CHARACTERISTICS

			$T_A = -40 ^{\circ}\text{C to } +85 ^{\circ}\text{C}$ $T_A = -40 ^{\circ}\text{C to } +125 ^{\circ}\text{C}$		to +125 °C			
Symbol	Parameter	Test Condition	V _{CC} (V)	Min	Max	Min	Max	Unit
t _{PLZ} , t _{PZL}	Propagation Delay, Input to Output	See Figures 3 and 4	1.65 to 1.95	-	6.5	-	6.5	ns
			2.3 to 2.7	-	3.5	-	3.5	
			2.7	-	4.1	-	4.1	
			3.0 to 3.6	-	3.7	-	3.7	
			4.5 to 5.5	-	3.2	-	3.2	

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.

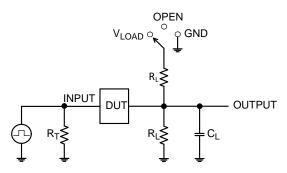
DYNAMIC SWITCHING CHARACTERISTICS $(T_A = +25^{\circ}C)$

Sym- bol	Characteristic	Condition	Min	Тур	Max	Unit
V _{OLP}	Dynamic LOW Peak Voltage (Note 5)	$V_{CC} = 3.3 \text{ V}, C_L = 50 \text{ pF}, V_{IH} = 3.3 \text{ V}, V_{IL} = 0 \text{ V}$ $V_{CC} = 2.5 \text{ V}, C_L = 30 \text{ pF}, V_{IH} = 2.5 \text{ V}, V_{IL} = 0 \text{ V}$		0.9 0.7		V
V _{OLV}	Dynamic LOW Valley Voltage (Note 5)	$V_{CC} = 3.3 \text{ V}, C_L = 50 \text{ pF}, V_{IH} = 3.3 \text{ V}, V_{IL} = 0 \text{ V}$ $V_{CC} = 2.5 \text{ V}, C_L = 30 \text{ pF}, V_{IH} = 2.5 \text{ V}, V_{IL} = 0 \text{ V}$		-0.8 -0.6		V

^{5.} 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

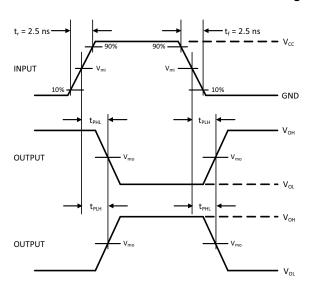
Symbol	Parameter	Condition	Тур	Unit
C _{IN}	Input Capacitance	$V_{CC} = 3.3 \text{ V}, V_{I} = 0 \text{ V or } V_{CC}$	7	pF
C _{OUT}	Output Capacitance	$V_{CC} = 3.3 \text{ V}, V_{I} = 0 \text{ V or } V_{CC}$	8	pF
C _{PD}	Power Dissipation Capacitance	10 MHz, $V_{CC} = 3.3 \text{ V}$, $V_I = 0 \text{ V or } V_{CC}$	25	pF

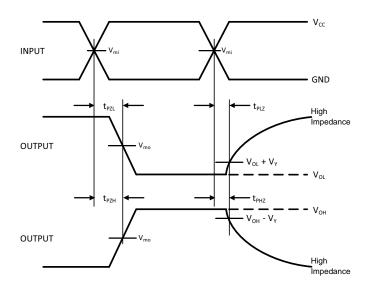


Test	Switch Position
t _{PLH} / t _{PHL}	Open
t _{PLZ} / t _{PZL}	V_{LOAD}
t _{PHZ} / t _{PZH}	GND

 $\boldsymbol{C}_{\boldsymbol{L}}$ includes probe and jig capacitance R_T is Z_{OUT} of pulse generator (typically 50 Ω) f = 1 MHz

Figure 3. Test Circuit





V _{CC} , V	R_L,Ω	C _L , pF	V _{LOAD}	V _m , V	V _Y , V
1.65 to 1.95	500	30	2 x V _{CC}	V _{CC} /2	0.15
2.3 to 2.7	500	30	2 x V _{CC}	V _{CC} /2	0.15
2.7	500	50	6 V	1.5	0.3
3.0 to 3.6	500	50	6 V	1.5	0.3
4.5 to 5.5	500	50	2 x V _{CC}	V _{CC} /2	0.3

Figure 4. Switching Waveforms

ORDERING INFORMATION

Device	Marking	Package	Shipping [†]
MC74LCX06DG	LCX06G	SOIC-14	55 Units / Rail
MC74LCX06DR2G	LCX06G	SOIC-14	2500 / Tape & Reel
MC74LCX06DTR2G	LCX 06	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.
*-Q Suffix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q100 Qualified and PPAP Capable.

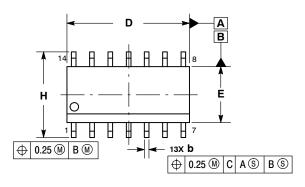


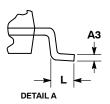


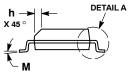
△ 0.10

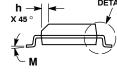
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DATE 03 FEB 2016





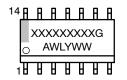




- NOTES:
 1. DIMENSIONING AND TOLERANCING PER
 - ASME Y14.5M, 1994.
 CONTROLLING DIMENSION: MILLIMETERS.
 - DIMENSION b DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE PROTRUSION SHALL BE 0.13 TOTAL IN EXCESS OF AT
 - MAXIMUM MATERIAL CONDITION.
 DIMENSIONS D AND E DO NOT INCLUDE MOLD PROTRUSIONS.
- 5.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

	MILLIMETERS		INCHES	
DIM	MIN	MAX	MIN	MAX
Α	1.35	1.75	0.054	0.068
A1	0.10	0.25	0.004	0.010
АЗ	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
Е	3.80	4.00	0.150	0.157
œ	1.27 BSC		0.050	BSC
Н	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
М	0 °	7°	0 °	7°

GENERIC MARKING DIAGRAM*



XXXXX = Specific Device Code Α = Assembly Location

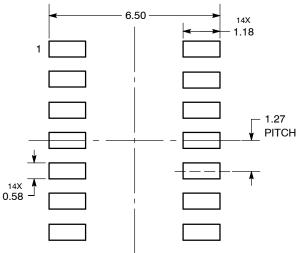
WL = Wafer Lot Υ = Year WW = Work Week = Pb-Free Package

*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.

SOLDERING FOOTPRINT*

C SEATING PLANE

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.

STYLES ON PAGE 2

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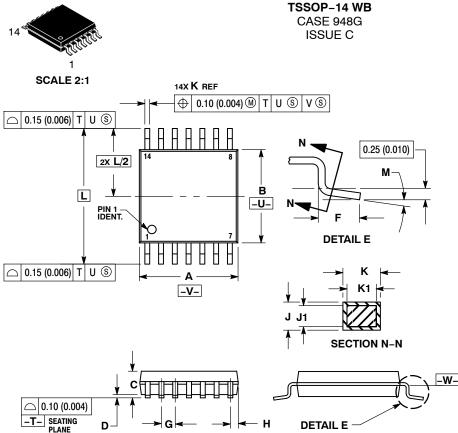
DATE 03 FEB 2016

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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DATE 17 FEB 2016

- 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.
 DIMENSION B DOES NOT INCLUDE
- INTERLEAD FLASH OR PROTRUSION.
 INTERLEAD FLASH OR PROTRUSION SHALL
- 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 DEEEDENIC OMITY.
- REFERENCE ONLY.
 DIMENSION A AND B ARE TO BE
- DETERMINED AT DATUM PLANE -W-.

	MILLIMETERS		INCHES	
DIM	MIN	MAX	MIN	MAX
Α	4.90	5.10	0.193	0.200
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	0.50	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
м	o °	8 °	o °	a °

GENERIC MARKING DIAGRAM*



= Assembly Location

L = Wafer Lot = Year

= Work Week W

= 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.

RECOMMENDED SOLDERING FOOTPRINT*

-	7.06
1	
	
	0.65 PITCH
↓ □	
14X 0.36 126	
0.36 - 1.26	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.

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