

# MC74LCX258

## Low-Voltage CMOS Quad 2-Input Multiplexer

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

The MC74LCX258 is a high performance, quad 2-input inverting multiplexer with 3-state outputs operating from a 2.3 to 3.6 V supply. High impedance TTL compatible inputs significantly reduce current loading to input drivers while TTL compatible outputs offer improved switching noise performance. A  $V_I$  specification of 5.5 V allows MC74LCX258 inputs to be safely driven from 5 V devices.

Four bits of data from two sources can be selected using the Select input. The four outputs present the selected data in the inverted form. The outputs may be switched to a high impedance state by placing a logic HIGH on the Output Enable ( $\overline{OE}$ ) input. Current drive capability is 24 mA at the outputs.

#### Features

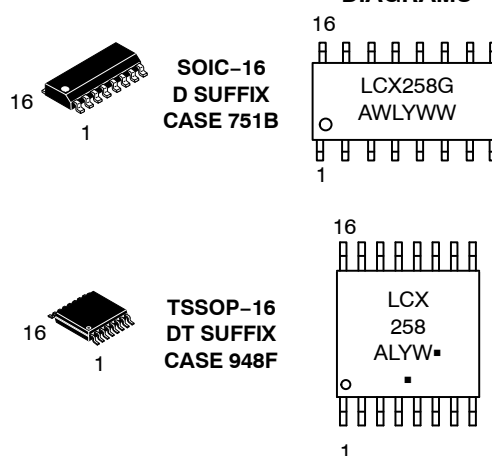
- Designed for 2.3 to 3.6 V  $V_{CC}$  Operation
- 5 V Tolerant – Interface Capability With 5 V TTL Logic
- Supports Live Insertion and Withdrawal
- $I_{OFF}$  Specification Guarantees High Impedance When  $V_{CC} = 0$  V
- TTL Compatible
- CMOS Compatible
- 24 mA Balanced Output Sink and Source Capability
- Near Zero Static Supply Current in all Three Logic States (10  $\mu$ A) Substantially Reduces System Power Requirements
- Latchup Performance Exceeds 500 mA
- ESD Performance:
  - ♦ Human Body Model >2000 V
  - ♦ Machine Model >200 V
- These Devices are Pb-Free, Halogen Free/BFR Free and are RoHS Compliant



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#### MARKING DIAGRAMS



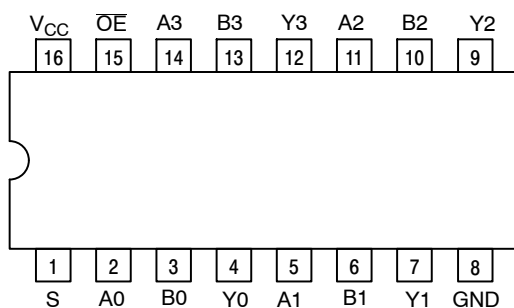
A = Assembly Location  
WL, L = Wafer Lot  
Y = Year  
WW, W = Work Week  
G or ■ = Pb-Free Package

(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.

# MC74LCX258



## PIN NAMES

| Pins | Function             |
|------|----------------------|
| An   | Source 0 Data Inputs |
| Bn   | Source B Data Inputs |
| OE   | Enable Input         |
| S    | Select Input         |
| Yn   | Outputs              |

**Figure 1. Pinout: 16-Lead Plastic Package**  
(Top View)

## TRUTH TABLE

| Inputs        |        | Outputs |
|---------------|--------|---------|
| Output Enable | Select | Y0–Y3   |
| H             | X      | Z       |
| L             | L      | A0–A3   |
| L             | H      | B0–B3   |

X = Don't Care

A0–A3, B0–B3 = The levels of the respective Data–Word Inputs

## PIN DESCRIPTIONS

### INPUTS

#### A0–A3 (Pins 2, 5, 11, 14)

Nibble A inputs. The data present on these pins is transferred to the outputs when the Select input is at a low level and the Output Enable input is at a low level. The data is presented to the outputs in inverted form for the LCX258.

#### B0–B3 (Pins 3, 6, 10, 13)

Nibble B inputs. The data present on these pins is transferred to the outputs when the Select input is at a high level and the Output Enable input is at a low level. The data is presented to the outputs in inverted form for the LCX258.

### OUTPUTS

#### Y0–Y3 (Pins 4, 7, 9, 12)

Data outputs. The selected input nibble is presented at these outputs when the Output Enable input is at a low level. The data present on these pins is in its inverted form for the LCX258. For the Output Enable input at a high level, the outputs are at a high level for the LCX258.

#### Select (Pin 1)

Nibble select. This input determines the data word to be transferred to the outputs. A low level on this input selects the A inputs and a high level selects the B inputs.

### CONTROL INPUTS

#### Output Enable (Pin 15)

Output Enable input. A low level on this input allows the selected data to be presented at the outputs. A high level on this input sets all of the outputs to 3–state off.

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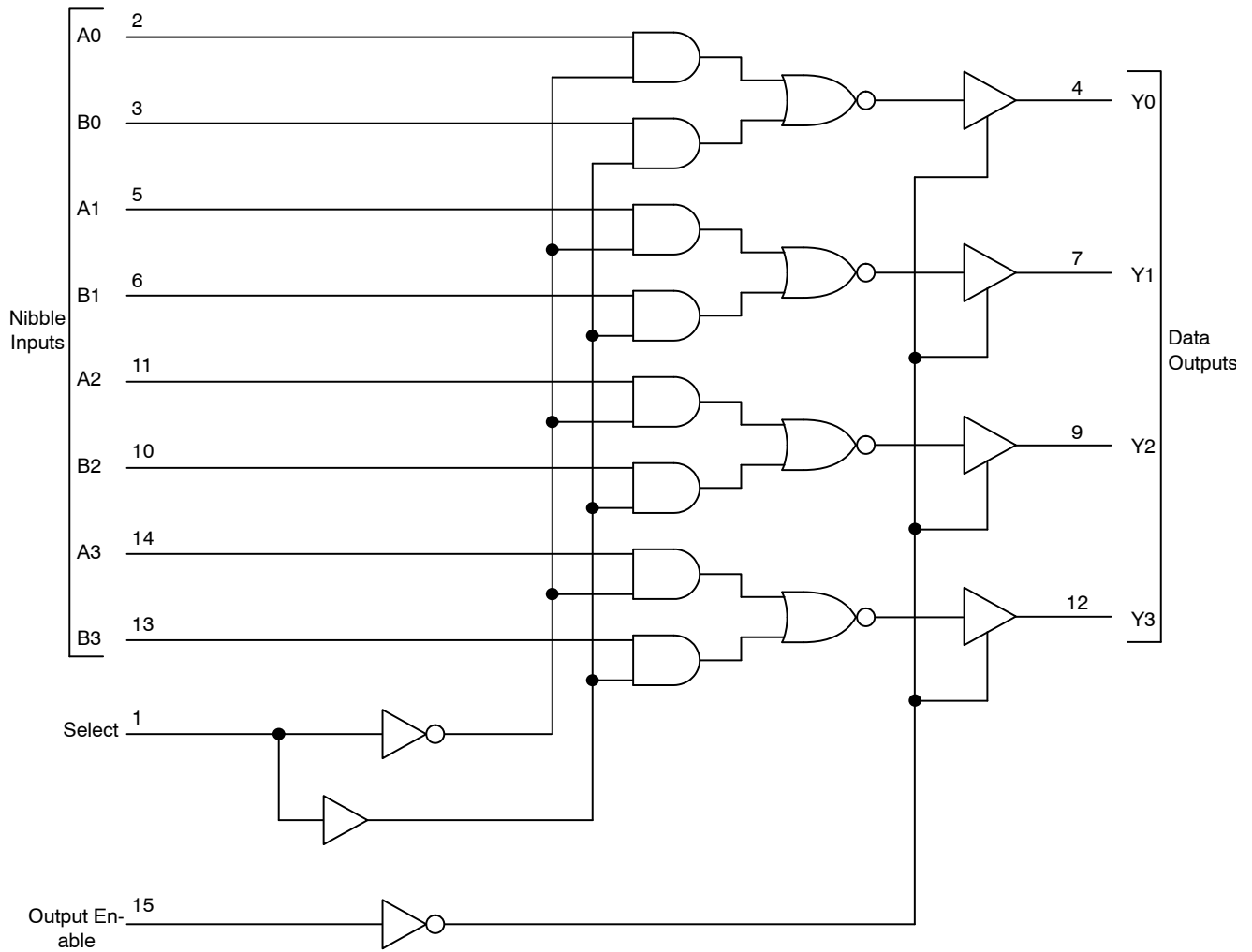


Figure 2. Expanded Logic Diagram

# MC74LCX258

## MAXIMUM RATINGS

| Symbol    | Parameter                        | Value                             | Condition          | Units |
|-----------|----------------------------------|-----------------------------------|--------------------|-------|
| $V_{CC}$  | DC Supply Voltage                | -0.5 to +7.0                      |                    | V     |
| $V_I$     | DC Input Voltage                 | $-0.5 \leq V_I \leq +7.0$         |                    | V     |
| $V_O$     | DC Output Voltage                | $-0.5 \leq V_O \leq V_{CC} + 0.5$ | Note 1             | V     |
| $I_{IK}$  | DC Input Diode Current           | -50                               | $V_I < \text{GND}$ | mA    |
| $I_{OK}$  | DC Output Diode Current          | -50                               | $V_O < \text{GND}$ | mA    |
|           |                                  | +50                               | $V_O > V_{CC}$     | mA    |
| $I_O$     | DC Output Source/Sink Current    | $\pm 50$                          |                    | mA    |
| $I_{CC}$  | DC Supply Current Per Supply Pin | $\pm 100$                         |                    | mA    |
| $I_{GND}$ | DC Ground Current Per Ground Pin | $\pm 100$                         |                    | mA    |
| $T_{STG}$ | Storage Temperature Range        | -65 to +150                       |                    | °C    |
| MSL       | Moisture Sensitivity             |                                   | Level 1            |       |

Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

1. Output in HIGH or LOW State.  $I_O$  absolute maximum rating must be observed.

## RECOMMENDED OPERATING CONDITIONS

| Symbol              | Parameter                                                                                                                                                     | Min        | Typ        | Max              | Units |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|------------------|-------|
| $V_{CC}$            | Supply Voltage<br>Operating<br>Data Retention Only                                                                                                            | 2.0<br>1.5 | 2.3 to 3.3 | 3.6<br>3.6       | V     |
| $V_I$               | Input Voltage                                                                                                                                                 | 0          |            | 5.5              | V     |
| $V_O$               | Output Voltage (HIGH or LOW State)                                                                                                                            | 0          |            | $V_{CC}$         | V     |
| $I_{OH}$            | HIGH Level Output Current<br>$V_{CC} = 3.0 \text{ V} - 3.6 \text{ V}$<br>$V_{CC} = 2.7 \text{ V} - 3.0 \text{ V}$<br>$V_{CC} = 2.3 \text{ V} - 2.7 \text{ V}$ |            |            | -24<br>-12<br>-8 | mA    |
| $I_{OL}$            | LOW Level Output Current<br>$V_{CC} = 3.0 \text{ V} - 3.6 \text{ V}$<br>$V_{CC} = 2.7 \text{ V} - 3.0 \text{ V}$<br>$V_{CC} = 2.3 \text{ V} - 2.7 \text{ V}$  |            |            | +24<br>+12<br>+8 | mA    |
| $T_A$               | Operating Free-Air Temperature                                                                                                                                | -40        |            | +85              | °C    |
| $\Delta t/\Delta V$ | Input Transition Rise or Fall Rate, $V_{IN}$ from 0.8 V to 2.0 V,<br>$V_{CC} = 3.0 \text{ V}$                                                                 | 0          |            | 10               | ns/V  |

## ORDERING INFORMATION

| Device          | Package               | Shipping <sup>†</sup> |
|-----------------|-----------------------|-----------------------|
| MC74LCX258DR2G  | SOIC-16<br>(Pb-Free)  | 2500 / Tape & Reel    |
| MC74LCX258DTG   | TSSOP-16<br>(Pb-Free) | 96 Units / Rail       |
| MC74LCX258DTR2G | TSSOP-16<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.

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## DC ELECTRICAL CHARACTERISTICS

| Symbol           | Characteristic                               | Condition                                                                                                                                                                                                                                                                     | T <sub>A</sub> = -40°C to +85°C                   |                                  | Units |
|------------------|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|----------------------------------|-------|
|                  |                                              |                                                                                                                                                                                                                                                                               | Min                                               | Max                              |       |
| V <sub>IH</sub>  | Minimum HIGH Level Input Voltage<br>(Note 2) | 2.3 V ≤ V <sub>CC</sub> ≤ 2.7 V<br>2.7 V ≤ V <sub>CC</sub> ≤ 3.0 V<br>3.0 V ≤ V <sub>CC</sub> ≤ 3.6 V                                                                                                                                                                         | 1.7<br>2.0<br>2.0                                 |                                  | V     |
| V <sub>IL</sub>  | Maximum LOW Level Input Voltage<br>(Note 2)  | 2.3 V ≤ V <sub>CC</sub> ≤ 2.7 V<br>2.7 V ≤ V <sub>CC</sub> ≤ 3.0 V<br>3.0 V ≤ V <sub>CC</sub> ≤ 3.6 V                                                                                                                                                                         |                                                   | 0.7<br>0.8<br>0.8                | V     |
| V <sub>OH</sub>  | Minimum HIGH Level Output Voltage            | 2.3 V ≤ V <sub>CC</sub> ≤ 3.6 V; I <sub>OH</sub> = -100 μA<br>V <sub>CC</sub> = 2.3 V; I <sub>OH</sub> = -8 mA<br>V <sub>CC</sub> = 2.7 V; I <sub>OH</sub> = -12 mA<br>V <sub>CC</sub> = 3.0 V; I <sub>OH</sub> = -18 mA<br>V <sub>CC</sub> = 3.0 V; I <sub>OH</sub> = -24 mA | V <sub>CC</sub> - 0.2<br>1.7<br>2.2<br>2.4<br>2.2 |                                  | V     |
| V <sub>OL</sub>  | Maximum LOW Level Output Voltage             | 2.3 V ≤ V <sub>CC</sub> ≤ 3.6 V; I <sub>OH</sub> = 100 μA<br>V <sub>CC</sub> = 2.3 V; I <sub>OH</sub> = 8 mA<br>V <sub>CC</sub> = 2.7 V; I <sub>OH</sub> = 12 mA<br>V <sub>CC</sub> = 3.0 V; I <sub>OH</sub> = 16 mA<br>V <sub>CC</sub> = 3.0 V; I <sub>OH</sub> = 24 mA      |                                                   | 0.2<br>0.7<br>0.4<br>0.4<br>0.55 | V     |
| I <sub>OZ</sub>  | 3-State Output Current                       | V <sub>CC</sub> = 3.6 V, V <sub>IN</sub> = V <sub>IH</sub> or V <sub>IL</sub> ,<br>V <sub>OUT</sub> = 0 to 5.5 V                                                                                                                                                              |                                                   | ±5                               | μA    |
| I <sub>OFF</sub> | Power Off Leakage Current                    | V <sub>CC</sub> = 0, V <sub>IN</sub> = 5.5 V or V <sub>OUT</sub> = 5.5 V                                                                                                                                                                                                      |                                                   | 10                               | μA    |
| I <sub>IN</sub>  | Input Leakage Current                        | V <sub>CC</sub> = 3.6 V, V <sub>IN</sub> = 5.5 V or GND                                                                                                                                                                                                                       |                                                   | ±5                               | μA    |
| I <sub>CC</sub>  | Quiescent Supply Current                     | V <sub>CC</sub> = 3.6 V, V <sub>IN</sub> = 5.5 V or GND                                                                                                                                                                                                                       |                                                   | 10                               | μA    |
| ΔI <sub>CC</sub> | Increase in I <sub>CC</sub> per Input        | 2.3 V ≤ V <sub>CC</sub> ≤ 3.6 V; V <sub>IH</sub> = V <sub>CC</sub> - 0.6 V                                                                                                                                                                                                    |                                                   | 500                              | μA    |

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

## AC ELECTRICAL CHARACTERISTICS

| Symbol                                 | Parameter                        | Limits                           |            |                         |            |                                  |            | Units |
|----------------------------------------|----------------------------------|----------------------------------|------------|-------------------------|------------|----------------------------------|------------|-------|
|                                        |                                  | 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 |            | V <sub>CC</sub> = 2.3 V to 2.7 V |            |       |
|                                        |                                  | C <sub>L</sub> = 50 pF           |            | C <sub>L</sub> = 50 pF  |            | C <sub>L</sub> = 30 pF           |            |       |
|                                        |                                  | Min                              | Max        | Min                     | Max        | Min                              | Max        |       |
| t <sub>PLH</sub><br>t <sub>PHL</sub>   | Propagation Delay<br>A to B to Y | 1.0<br>1.0                       | 6.5<br>6.5 | 1.0<br>1.0              | 7.5<br>7.5 | 1.0<br>1.0                       | 8.5<br>8.5 | ns    |
| t <sub>PLH</sub><br>t <sub>PHL</sub>   | Propagation Delay<br>S to Y      | 1.0<br>1.0                       | 7.0<br>7.0 | 1.0<br>1.0              | 8.0<br>8.0 | 1.0<br>1.0                       | 9.0<br>9.0 | ns    |
| t <sub>PZL</sub><br>t <sub>PZH</sub>   | Propagation Delay<br>OE to Y     | 1.0<br>1.0                       | 7.0<br>7.0 | 1.0<br>1.0              | 8.0<br>8.0 | 1.0<br>1.0                       | 9.0<br>9.0 | ns    |
| t <sub>PLZ</sub><br>t <sub>PHZ</sub>   | Propagation Delay<br>OE to Y     | 1.0<br>1.0                       | 6.0<br>6.0 | 1.0<br>1.0              | 7.0<br>7.0 | 1.0<br>1.0                       | 8.0<br>8.0 | ns    |
| t <sub>OSHL</sub><br>t <sub>OSLH</sub> | Output-to-Output Skew            |                                  | 1.0<br>1.0 |                         |            |                                  |            | ns    |

## DYNAMIC SWITCHING CHARACTERISTICS

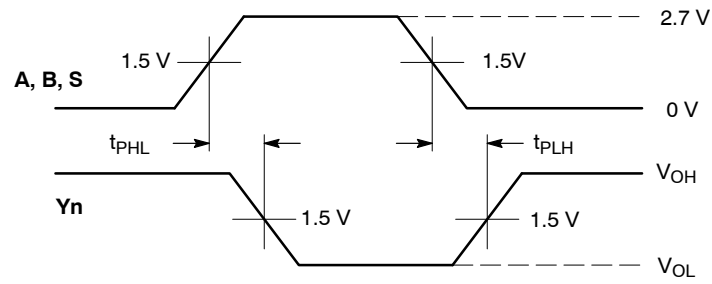
| Symbol           | Characteristic                      | Condition                                                                                       | T <sub>A</sub> = +25°C |     |     | Units |
|------------------|-------------------------------------|-------------------------------------------------------------------------------------------------|------------------------|-----|-----|-------|
|                  |                                     |                                                                                                 | Min                    | Typ | Max |       |
| V <sub>OLP</sub> | Dynamic LOW Peak Voltage (Note 3)   | V <sub>CC</sub> = 3.3 V, C <sub>L</sub> = 50 pF, V <sub>IH</sub> = 3.3 V, V <sub>IL</sub> = 0 V |                        | 0.8 |     | V     |
| V <sub>OLV</sub> | Dynamic LOW Valley Voltage (Note 3) | V <sub>CC</sub> = 3.3 V, C <sub>L</sub> = 50 pF, V <sub>IH</sub> = 3.3 V, V <sub>IL</sub> = 0 V |                        | 0.8 |     | V     |

3. 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

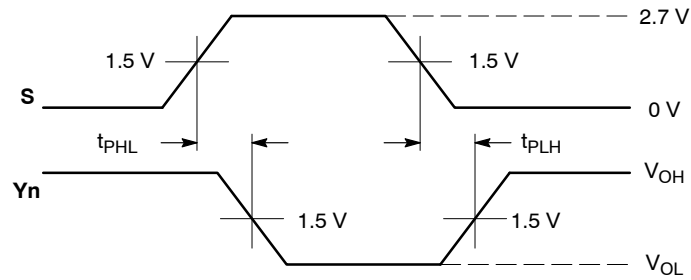
| Symbol           | Parameter                     | Condition                                                                | Typical | Units |
|------------------|-------------------------------|--------------------------------------------------------------------------|---------|-------|
| C <sub>IN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

## MC74LCX258



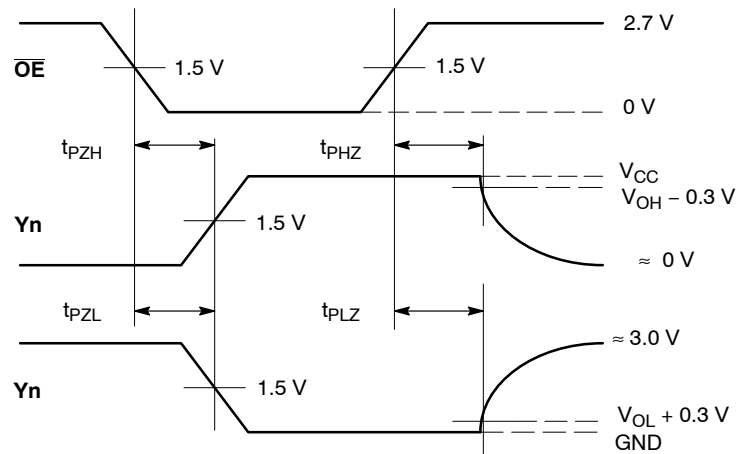
**WAVEFORM 1 – NONINVERTING PROPAGATION DELAYS**

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



**WAVEFORM 2 – INVERTING PROPAGATION DELAYS**

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

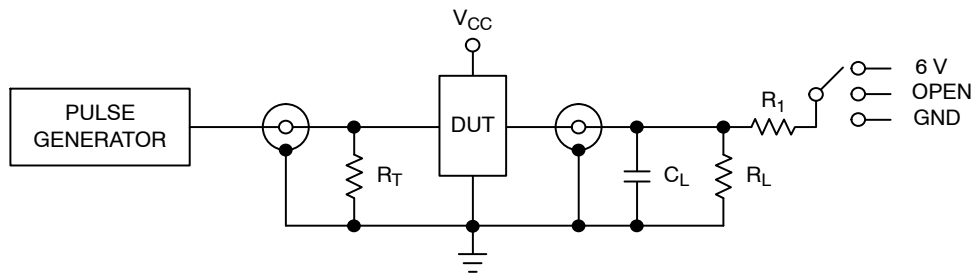


**WAVEFORM 3 – OUTPUT ENABLE AND DISABLE TIMES**

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

**Figure 3. AC Waveforms**

## MC74LCX258



| Test                                         | Switch |
|----------------------------------------------|--------|
| $t_{PLH}$ , $t_{PHL}$                        | Open   |
| $t_{PZL}$ , $t_{PLZ}$                        | 6 V    |
| Open Collector/Drain $t_{PLH}$ and $t_{PHL}$ | 6 V    |
| $t_{PZH}$ , $t_{PHZ}$                        | GND    |

$C_L = 50$  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**

## PACKAGE DIMENSIONS

[illegible]

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: MILLIMETER.
3. DIMENSIONS A AND B DO NOT INCLUDE MOLD PROTRUSION.
4. MAXIMUM MOLD PROTRUSION 0.15 (0.006) PER SIDE.
5. DIMENSION D DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.127 (0.005) TOTAL IN EXCESS OF THE D DIMENSION AT MAXIMUM MATERIAL CONDITION.

| DIM | MILLIMETERS |       | INCHES    |       |
|-----|-------------|-------|-----------|-------|
|     | MIN         | MAX   | MIN       | MAX   |
| A   | 9.80        | 10.00 | 0.386     | 0.393 |
| B   | 3.80        | 4.00  | 0.150     | 0.157 |
| C   | 1.35        | 1.75  | 0.054     | 0.068 |
| D   | 0.35        | 0.49  | 0.014     | 0.019 |
| F   | 0.40        | 1.25  | 0.016     | 0.049 |
| G   | 1.27 BSC    |       | 0.050 BSC |       |
| J   | 0.19        | 0.25  | 0.008     | 0.009 |
| K   | 0.10        | 0.25  | 0.004     | 0.009 |
| M   | 0 °         | 7 °   | 0 °       | 7 °   |
| P   | 5.80        | 6.20  | 0.229     | 0.244 |
| R   | 0.25        | 0.50  | 0.010     | 0.019 |

Diagram illustrating the dimensions of a 16x8 array of components. The array is divided into two columns of 8 components each. The total width is 6.40 mm, and the total height is 1.12 mm. The pitch between components is 1.27 mm. The dimensions are labeled as follows:

- 8X (width of one column)
- 6.40 (total width)
- 16X 1.12 (total height)
- 16X 0.58 (height of one column)
- 1.27 PITCH (pitch between components)
- 9 (component number)
- 8 (component number)

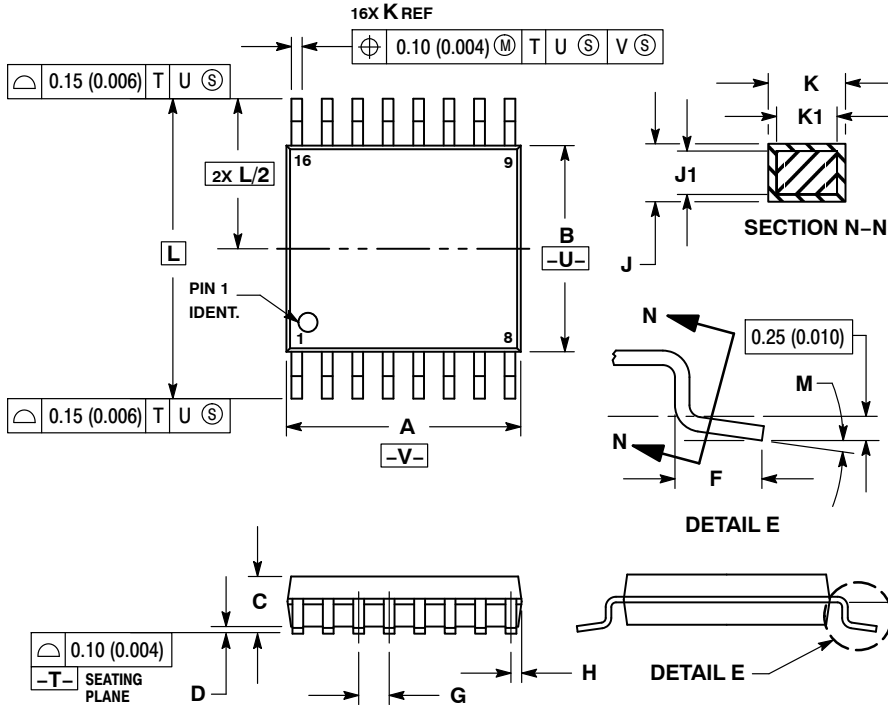
DIMENSIONS: MILLIMETERS



# MC74LCX258

## PACKAGE DIMENSIONS

TSSOP-16  
DT SUFFIX  
CASE 948F-01  
ISSUE B

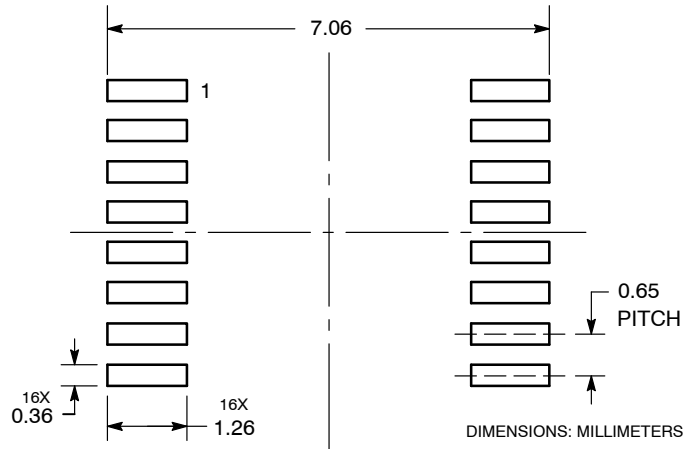


### NOTES:

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   | 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   | 0.18        | 0.28 | 0.007     | 0.011 |
| 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°    |

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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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