

MC74LVXC3245

Configurable Dual Supply Octal Transceiver

with 3-State Outputs for 3 V Systems

The 74LVXC3245 is a 24-pin dual-supply, octal configurable voltage interface transceiver especially well suited for PCMCIA and other real time configurable I/O applications. The V_{CCA} pin accepts a 3.0 V supply level; the A port is a dedicated 3.0 V port. The V_{CCB} pin accepts a 3.0 V-to-5.0 V supply level. The B port is configured to track the V_{CCB} supply level. A 5.0 V level on the V_{CCB} pin will configure the I/O pins at a 5.0 V level and a 3.0 V V_{CCB} will configure the I/O pins at a 3.0 V level. The A port interfaces with a 3.0 V host system and the B port to the card slots. This device will allow the V_{CCB} voltage source pin and I/O pins on the B port to float when \overline{OE} is High. This feature is necessary to buffer data to and from a PCMCIA socket that permits PCMCIA cards to be inserted and removed during normal operation. The Transmit/Receive (T/R) input determines the direction of data flow. Transmit (active-High) enables data from the A port to B port. Receive (active-Low) enables data from the B port to the A port.

Features

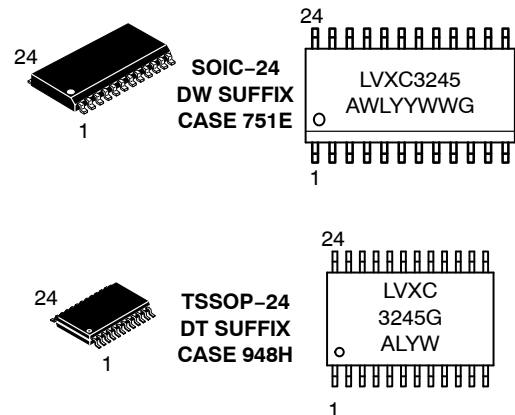
- Bidirectional Interface Between 3.0 V and 3.0 V/5.0 V Buses
- Control Inputs Compatible with TTL Level
- Outputs Source/Sink Up to 24 mA
- Guaranteed Simultaneous Switching Noise Level and Dynamic Threshold Performance
- Available in SOIC and TSSOP Packages
- Flexible V_{CCB} Operating Range
- Allows B Port and V_{CCB} to Float Simultaneously When \overline{OE} is High
- Functionally Compatible With the 74 Series 245
- These Devices are Pb-Free and are RoHS Compliant



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MARKING DIAGRAMS



LVXC3245 = 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 5 of this data sheet.

MC74LVXC3245

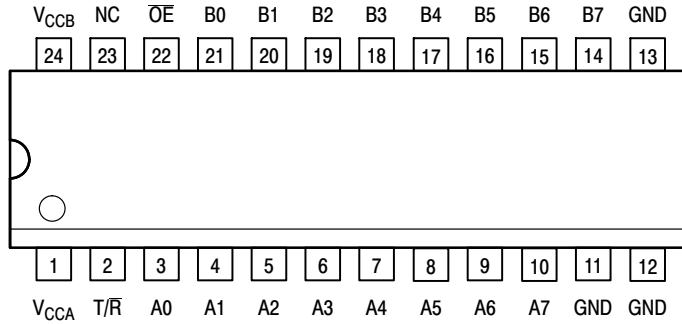


Figure 1. 24-Lead Pinout (Top View)

PIN NAMES

| Pins | Function |
|-----------------|--|
| \overline{OE} | Output Enable Input |
| T/R | Transmit/Receive Input |
| A0–A7 | Side A 3–State Inputs or 3–State Outputs |
| B0–B7 | Side B 3–State Inputs or 3–State Outputs |

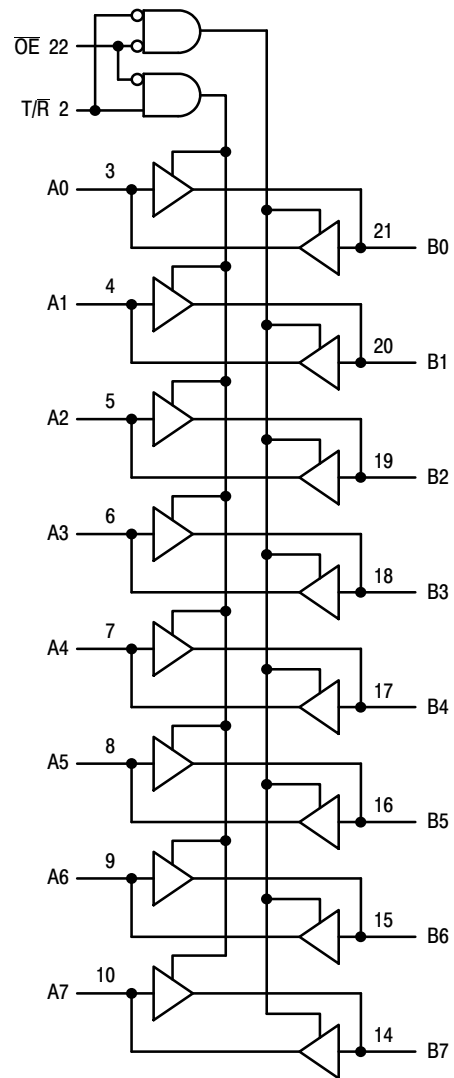


Figure 2. Logic Diagram

| INPUTS | | OPERATING MODE Non-Inverting |
|-----------------|-----|---------------------------------|
| \overline{OE} | T/R | |
| L | L | B Data to A Bus |
| L | H | A Data to B Bus |
| H | X | 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

MC74LVXC3245

MAXIMUM RATINGS

| Symbol | Parameter | Value | Condition | Unit | |
|--------------------------|--------------------------------|-------------------------------------|-------------------------|------------------------------|----|
| V_{CCA} , V_{CCB} | DC Supply Voltage | -0.5 to +7.0 | | V | |
| V_I | DC Input Voltage | \overline{OE} , T/ \overline{R} | -0.5 to $V_{CCA} + 0.5$ | V | |
| $V_{I/O}$ | DC Input/Output Voltage | An | -0.5 to $V_{CCA} + 0.5$ | V | |
| | | Bn | -0.5 to $V_{CCB} + 0.5$ | V | |
| I_{IK} | DC Input Diode Current | \overline{OE} , T/ \overline{R} | ± 20 | $V_I < GND$ | mA |
| I_{OK} | DC Output Diode Current | | ± 50 | $V_O < GND$; $V_O > V_{CC}$ | mA |
| I_O | DC Output Source/Sink Current | | ± 50 | | mA |
| I_{CC} , I_{GND} | DC Supply Current | Per Output Pin Maximum Current | ± 50 ± 200 | | mA |
| T_{STG} | Storage Temperature Range | | -65 to +150 | | °C |
| | DC Latchup Source/Sink Current | | ± 300 | | mA |

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.

RECOMMENDED OPERATING CONDITIONS

| Symbol | Parameter | Min | Max | Unit |
|--------------------------|---|--------------------------------------|------------|------|
| V_{CCA} , V_{CCB} | Supply Voltage ($V_{CCA} \leq V_{CCB}$) | V_{CCA} 2.3 V_{CCB} 3.0 | 3.6 5.5 | V |
| V_I | Input Voltage | \overline{OE} , T/ \overline{R} | V_{CCA} | V |
| $V_{I/O}$ | Input/Output Voltage | An | V_{CCA} | V |
| | | Bn | V_{CCB} | V |
| T_A | Operating Free-Air Temperature | -40 | +85 | °C |
| $\Delta t/\Delta V$ | Minimum Input Edge Rate V_{IN} from 30% to 70% of V_{CC} ; V_{CC} at 3.0 V, 4.5 V, 5.5 V | 0 | 8 | ns/V |

DC ELECTRICAL CHARACTERISTICS

| Symbol | Parameter | Condition | V_{CCA} | V_{CCB} | $T_A = 25^\circ\text{C}$ | | $T_A = -40 \text{ to } +85^\circ\text{C}$ | | Unit |
|-----------|-----------------------------------|--|-------------------|-------------------|--------------------------|-------------------|---|----|-------------------|
| | | | | | Typ | Guaranteed Limits | | | |
| V_{IHA} | Minimum HIGH Level Input Voltage | An \overline{OE} T/ \overline{R} | 2.3 3.0 3.6 | 3.0 3.6 5.5 | | 2.0 2.0 2.0 | 2.0 2.0 2.0 | | V |
| | | | | | | | V_{IHB} | Bn | |
| V_{ILA} | Maximum LOW Level Input Voltage | An \overline{OE} T/ \overline{R} | 2.3 3.0 3.6 | 3.0 3.6 5.5 | | 0.8 0.8 0.8 | | | 0.8 0.8 0.8 |
| | | | | | | | V_{ILB} | Bn | 2.3 3.0 3.6 |
| V_{OHA} | Minimum HIGH Level Output Voltage | $I_{OUT} = -100 \mu\text{A}$ $I_{OH} = -12 \text{ mA}$ $I_{OH} = -24 \text{ mA}$ $I_{OH} = -12 \text{ mA}$ $I_{OH} = -24 \text{ mA}$ | 3.0 | 3.0 | 2.99 | 2.90 | | | |
| | | | 3.0 | 3.0 | 2.85 | 2.56 | 2.46 | | |
| | | | 3.0 | 3.0 | 2.65 | 2.35 | 2.25 | | |
| | | | 2.3 | 3.0 | 2.50 | 2.30 | 2.20 | | |
| | | | 2.3 | 4.5 | 2.30 | 2.10 | 2.00 | | |
| V_{OHB} | | $I_{OUT} = -100 \mu\text{A}$ $I_{OH} = -12 \text{ mA}$ $I_{OH} = -24 \text{ mA}$ $I_{OH} = -24 \text{ mA}$ | 3.0 | 3.0 | 2.99 | 2.90 | 2.90 | | V |
| | | | 3.0 | 3.0 | 2.85 | 2.56 | 2.46 | | |
| | | | 3.0 | 3.0 | 2.65 | 2.35 | 2.25 | | |
| | | | 3.0 | 3.0 | 2.65 | 2.35 | 2.25 | | |
| | | | 3.0 | 4.5 | 4.25 | 3.86 | 3.76 | | |

MC74LVXC3245

DC ELECTRICAL CHARACTERISTICS

| Symbol | Parameter | Condition | V _{CCA} | V _{CCB} | T _A = 25°C | | T _A = -40 to +85°C | | Unit |
|-------------------|--|---|------------------|------------------|-----------------------|-------------------|-------------------------------|--|------|
| | | | | | Typ | Guaranteed Limits | | | |
| V _{OLA} | Maximum LOW Level Output Voltage | I _{OUT} = 100 μA | 3.0 | 3.0 | 0.002 | 0.10 | 0.10 | | V |
| | | I _{OL} = 24 mA | 3.0 | 3.0 | 0.21 | 0.36 | 0.44 | | |
| | | I _{OL} = 12 mA | 2.7 | 3.0 | 0.11 | 0.36 | 0.44 | | |
| | | I _{OL} = 24 mA | 2.7 | 4.5 | 0.22 | 0.42 | 0.50 | | |
| V _{OLB} | | I _{OUT} = 100 μA | 3.0 | 3.0 | 0.002 | 0.10 | 0.10 | | V |
| | | I _{OL} = 24 mA | 3.0 | 3.0 | 0.21 | 0.36 | 0.44 | | |
| | | I _{OL} = 24 mA | 3.0 | 4.5 | 0.18 | 0.36 | 0.44 | | |
| I _{IN} | Max Input Leakage Current | \overline{OE} , T/R V _I = V _{CCA} , GND | 3.6 3.6 | 3.6 5.5 | | ±0.1 ±0.1 | ±1.0 ±1.0 | | μA |
| I _{OZA} | Max 3-State Output Leakage | An V _I = V _{IH} , V _{IL} \overline{OE} = V _{CCA} V _O = V _{CCA} , GND | 3.6 3.6 | 3.6 5.5 | | ±0.5 ±0.5 | ±5.0 ±5.0 | | μA |
| I _{OZB} | Max 3-State Output Leakage | Bn V _I = V _{IH} , V _{IL} \overline{OE} = V _{CCA} V _O = V _{CCB} , GND | 3.6 3.6 | 3.6 5.5 | | ±0.5 ±0.5 | ±5.0 ±5.0 | | μA |
| ΔI _{CC} | Maximum I _{CC} /Input | Bn V _I = V _{CCB} -2.1 V | 3.6 | 5.5 | 1.0 | 1.35 | 1.5 | | mA |
| | | All In-puts V _I = V _{CC} -0.6 V | 3.6 | 3.6 | | 0.35 | 0.5 | | mA |
| I _{CCA1} | Quiescent V _{CCA} Supply Current as B Port Floats | An = V _{CCA} or GND Bn = Open, \overline{OE} = V _{CCA} , T/R = V _{CCA} , V _{CCB} = Open | 3.6 | Open | | 5 | 50 | | μA |
| I _{CCA2} | Quiescent V _{CCA} Supply Current | An = V _{CCA} or GND Bn = V _{CCB} or GND, \overline{OE} = GND, T/R = GND | 3.6 3.6 | 3.6 5.5 | | 5 5 | 50 50 | | μA |
| | | | | | | | | | |
| I _{CCB} | Quiescent V _{CCB} Supply Current | An = V _{CCA} or GND Bn = V _{CCB} or GND, \overline{OE} = GND, T/R = V _{CCA} | 3.6 3.6 | 3.6 5.5 | | 5 8 | 50 80 | | μA |
| | | | | | | | | | |
| V _{OLPA} | Quiet Output Max Dynamic V _{OL} | Notes 1, 2 | 3.3 3.3 | 3.3 5.0 | | 0.8 0.8 | | | V |
| V _{OLPB} | | | 3.3 3.3 | 3.3 5.0 | | 0.8 1.5 | | | V |
| V _{OLVA} | Quiet Output Min Dynamic V _{OL} | Notes 1, 2 | 3.3 3.3 | 3.3 5.0 | | -0.8 -0.8 | | | V |
| V _{OLVB} | | | 3.3 3.3 | 3.3 5.0 | | -0.8 -1.2 | | | V |
| V _{IHDA} | Min HIGH Level Dynamic Input Voltage | Notes 1, 3 | 3.3 3.3 | 3.3 5.0 | | 2.0 2.0 | | | V |
| | | | 3.3 3.3 | 3.3 5.0 | | 2.0 3.5 | | | V |
| V _{ILDA} | Max LOW Level Dynamic Input Voltage | Notes 1, 3 | 3.3 3.3 | 3.3 5.0 | | 0.8 0.8 | | | V |
| | | | 3.3 3.3 | 3.3 5.0 | | 0.8 1.5 | | | V |

1. Worst case package.
2. Max number of outputs defined as (n). Data inputs are driven 0 V to V_{CC} level; one output at GND.
3. Max number of data inputs (n) switching. (n-1) inputs switching 0 V to V_{CC} level. Input under test switching: V_{CC} level to threshold (V_{IHD}), 0 V to threshold (V_{ILD}), f = 1 MHz.

MC74LVXC3245

AC ELECTRICAL CHARACTERISTICS

| Symbol | Parameter | $T_A = -40 \text{ to } +85^\circ\text{C}; C_L = 50 \text{ pF}$ | | | | | | Unit |
|--------------------------|---|--|-----------------|-------------|--|-----------------|-------------|------|
| | | $V_{CCA} = 2.7\text{--}3.6 \text{ V}$ $V_{CCB} = 4.5\text{--}5.5 \text{ V}$ | | | $V_{CCA} = 2.7\text{--}3.6 \text{ V}$ $V_{CCB} = 3.0\text{--}3.6 \text{ V}$ | | | |
| | | Min | Typ (Note 4) | Max | Min | Typ (Note 5) | Max | |
| t_{PHL} t_{PLH} | Propagation Delay A to B | 1.0 1.0 | 4.8 3.9 | 8.5 7.0 | 1.0 1.0 | 5.5 5.2 | 9.0 8.5 | ns |
| t_{PHL} t_{PLH} | Propagation Delay B to A | 1.0 1.0 | 3.8 4.3 | 7.0 8.0 | 1.0 1.0 | 4.4 5.1 | 7.5 8.0 | ns |
| t_{PZL} t_{PZH} | Output Enable Time \overline{OE} to B | 1.0 1.0 | 4.7 4.8 | 8.5 9.0 | 1.0 1.0 | 6.0 6.1 | 9.5 10.0 | ns |
| t_{PZL} t_{PZH} | Output Enable Time \overline{OE} to A | 1.0 1.0 | 5.9 5.4 | 10.0 9.5 | 1.0 1.0 | 6.4 5.8 | 10.5 9.5 | ns |
| t_{PHZ} t_{PLZ} | Output Disable Time \overline{OE} to B | 1.0 1.0 | 4.0 3.8 | 8.5 8.0 | 1.0 1.0 | 6.3 4.5 | 10.0 8.5 | ns |
| t_{PHZ} t_{PLZ} | Output Disable Time \overline{OE} to A | 1.0 1.0 | 4.6 3.1 | 10.0 7.0 | 1.0 1.0 | 5.2 3.4 | 10.0 7.0 | ns |
| t_{OSHL} t_{OSLH} | Output to Output Skew, Data to Output (Note 6) | | 1.0 | 1.5 | | 1.0 | 1.5 | ns |

4. Typical values at $V_{CCA} = 3.3 \text{ V}$, $V_{CCB} = 5.0 \text{ V}$ at 25°C .

5. Typical values at $V_{CCA} = 3.3 \text{ V}$, $V_{CCB} = 3.3 \text{ V}$ at 25°C .

6. 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 | Condition | Typical | Unit |
|-----------|---|--|----------|------|
| C_{IN} | Input Capacitance | $V_{CCA} = 3.3 \text{ V}; V_{CCB} = 5.0 \text{ V}$ | 4.5 | pF |
| $C_{I/O}$ | Input/Output Capacitance | $V_{CCA} = 3.3 \text{ V}; V_{CCB} = 5.0 \text{ V}$ | 10 | pF |
| C_{PD} | Power Dissipation Capacitance (Measured at 10 MHz) | A→B B→A $V_{CCB} = 5.0 \text{ V}$ $V_{CCA} = 3.3 \text{ V}$ | 50 40 | pF |

ORDERING INFORMATION

| Device | Package | Shipping [†] |
|-------------------|------------------------|-----------------------|
| MC74LVXC3245DWR2G | SOIC-24 (Pb-Free) | 1000 Tape & Reel |
| MC74LVXC3245DTG | TSSOP-24* (Pb-Free) | 62 Units / Rail |
| MC74LVXC3245DTR2G | TSSOP-24* (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.

*This package is inherently Pb-Free.

MC74LVXC3245

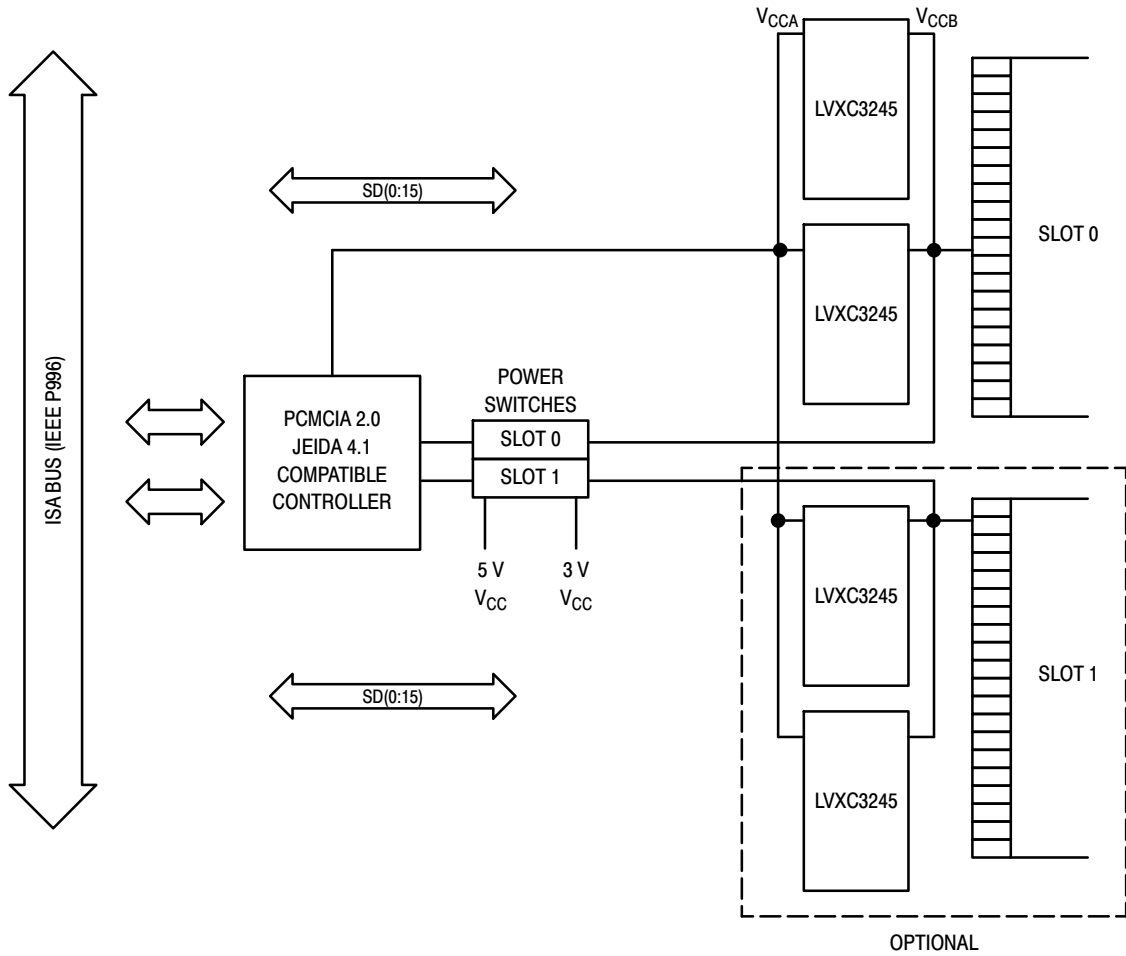


Figure 3. Block Diagram

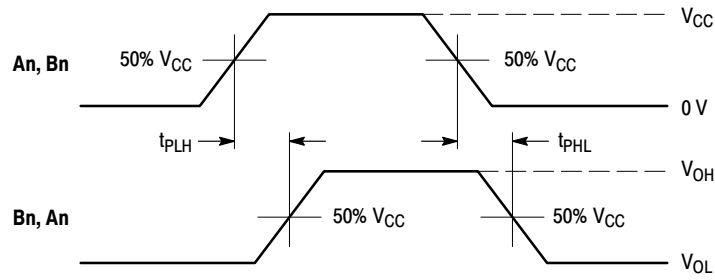
Configurable I/O Application for PCMCIA Cards

The 74LVXC3245 is a dual-supply device well suited for PCMCIA configurable I/O applications. The LVXC3245 consumes less than 1mW of quiescent power in all modes of operation, making it ideal for low power notebook designs. The LVXC3245 meets all PCMCIA I/O voltage requirements at 5.0 V and 3.3 V operation. By tying the V_{CCB} pin to the card voltage supply, the PCMCIA card will always have

rail-to-rail output swings, maximizing the reliability of the interface.

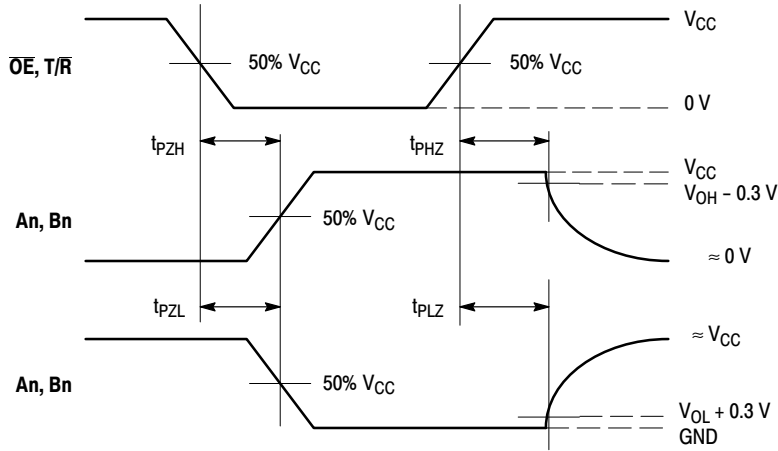
The V_{CCA} pin must always be tied to a 3.3 V power supply. This voltage connection provides internal references needed to account for variations in V_{CCB}. When connected as in the figure above, the LVXC3245 meets all the voltage and current requirements of the ISA bus standard (IEEE P996).

MC74LVXC3245



WAVEFORM 1 - PROPAGATION DELAYS

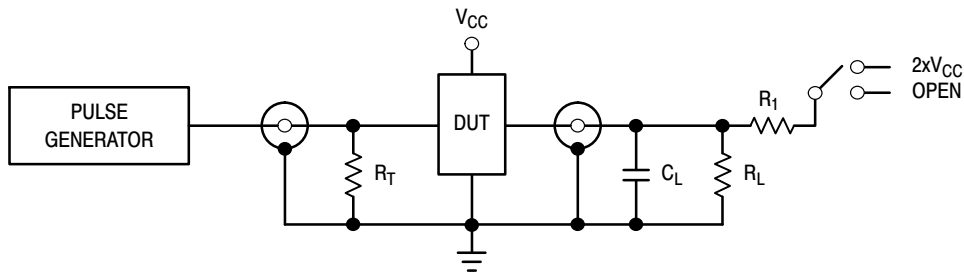
$t_R = t_F = 2.5 \text{ ns}$, 10% to 90%; $f = 1 \text{ MHz}$; $t_W = 500 \text{ ns}$



WAVEFORM 2 - 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 4. AC Waveforms



| TEST | SWITCH |
|---|------------|
| t_{PLH} , t_{PHL} , t_{PZH} , t_{PHZ} | Open |
| t_{PZL} , t_{PLZ} | $2xV_{CC}$ |

$C_L = 50 \text{ pF}$ or equivalent (Includes jig and probe capacitance)

$R_L = R_1 = 500 \Omega$ or equivalent

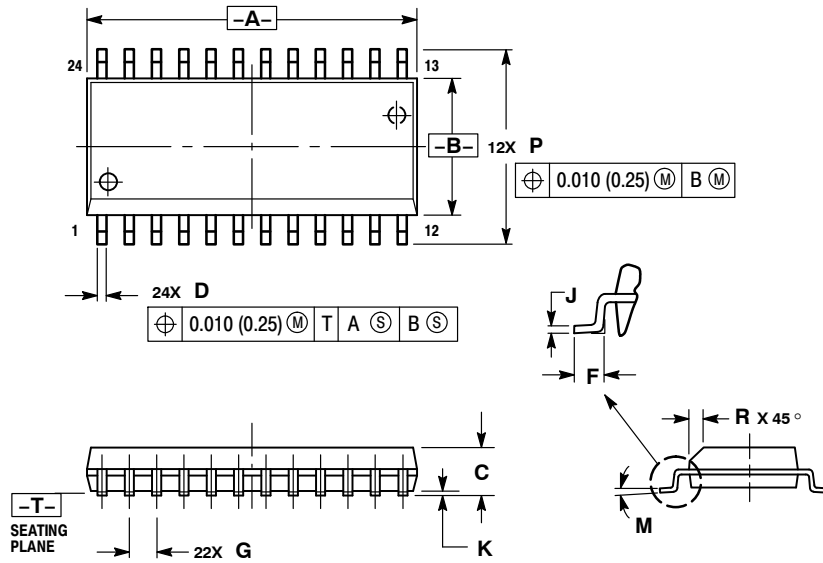
$R_T = Z_{OUT}$ of pulse generator (typically 50Ω)

Figure 5. Test Circuit

MC74LVXC3245

PACKAGE DIMENSIONS

SOIC-24
DW SUFFIX
CASE 751E-04
ISSUE E



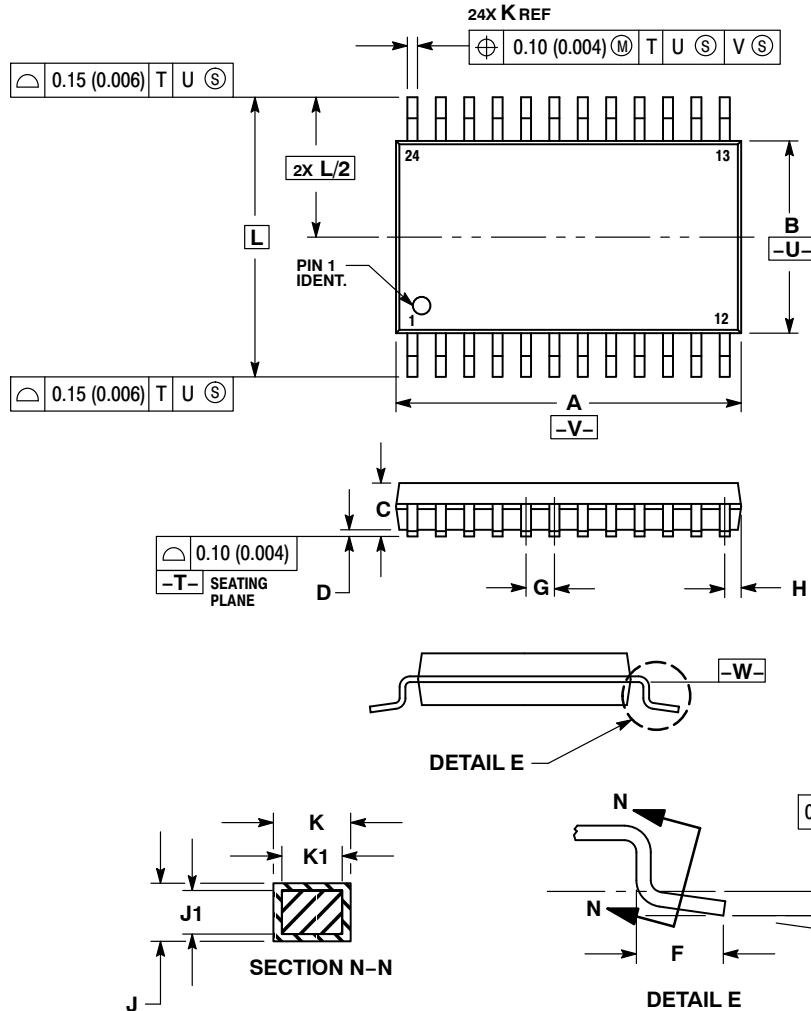
- NOTES:
1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
 2. CONTROLLING DIMENSION: MILLIMETER.
 3. DIMENSIONS A AND B DO NOT INCLUDE MOLD PROTRUSION.
 4. MAXIMUM MOLD PROTRUSION 0.15 (0.006) PER SIDE.
 5. DIMENSION D DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.13 (0.005) TOTAL IN EXCESS OF D DIMENSION AT MAXIMUM MATERIAL CONDITION.

| DIM | MILLIMETERS | | INCHES | |
|-----|-------------|-------|-----------|-------|
| | MIN | MAX | MIN | MAX |
| A | 15.25 | 15.54 | 0.601 | 0.612 |
| B | 7.40 | 7.60 | 0.292 | 0.299 |
| C | 2.35 | 2.65 | 0.093 | 0.104 |
| D | 0.35 | 0.49 | 0.014 | 0.019 |
| F | 0.41 | 0.90 | 0.016 | 0.035 |
| G | 1.27 BSC | | 0.050 BSC | |
| J | 0.23 | 0.32 | 0.009 | 0.013 |
| K | 0.13 | 0.29 | 0.005 | 0.011 |
| M | 0° | 8° | 0° | 8° |
| P | 10.05 | 10.55 | 0.395 | 0.415 |
| R | 0.25 | 0.75 | 0.010 | 0.029 |

MC74LVXC3245

PACKAGE DIMENSIONS

TSSOP-24
DT SUFFIX
CASE 948H-01
ISSUE A



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 | 7.70 | 7.90 | 0.303 | 0.311 |
| 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° |

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Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: org@lifeelectronics.ru