



Is Now Part of



ON Semiconductor®

To learn more about ON Semiconductor, please visit our website at
www.onsemi.com

Please note: As part of the Fairchild Semiconductor integration, some of the Fairchild orderable part numbers will need to change in order to meet ON Semiconductor's system requirements. Since the ON Semiconductor product management systems do not have the ability to manage part nomenclature that utilizes an underscore (_), the underscore (_) in the Fairchild part numbers will be changed to a dash (-). This document may contain device numbers with an underscore (_). Please check the ON Semiconductor website to verify the updated device numbers. The most current and up-to-date ordering information can be found at www.onsemi.com. Please email any questions regarding the system integration to Fairchild_questions@onsemi.com.

ON Semiconductor and the ON Semiconductor logo are trademarks of Semiconductor Components Industries, LLC dba ON Semiconductor or its subsidiaries in the United States and/or other countries. ON Semiconductor owns the rights to a number of patents, trademarks, copyrights, trade secrets, and other intellectual property. A listing of ON Semiconductor's product/patent coverage may be accessed at www.onsemi.com/site/pdf/Patent-Marking.pdf. ON Semiconductor reserves the right to make changes without further notice to any products herein. ON Semiconductor makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does ON Semiconductor assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. Buyer is responsible for its products and applications using ON Semiconductor products, including compliance with all laws, regulations and safety requirements or standards, regardless of any support or applications information provided by ON Semiconductor. "Typical" parameters which may be provided in ON Semiconductor data sheets and/or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including "Typicals" must be validated for each customer application by customer's technical experts. ON Semiconductor does not convey any license under its patent rights nor the rights of others. ON Semiconductor products are not designed, intended, or authorized for use as a critical component in life support systems or any FDA Class 3 medical devices or medical devices with a same or similar classification in a foreign jurisdiction or any devices intended for implantation in the human body. Should Buyer purchase or use ON Semiconductor products for any such unintended or unauthorized application, Buyer shall indemnify and hold ON Semiconductor and its officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, costs, damages, and expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized use, even if such claim alleges that ON Semiconductor was negligent regarding the design or manufacture of the part. ON Semiconductor is an Equal Opportunity/Affirmative Action Employer. This literature is subject to all applicable copyright laws and is not for resale in any manner.

74LVXC4245

8-Bit Dual Supply Configurable Voltage Interface Transceiver with 3-STATE Outputs

General Description

The LVXC4245 is a 24-pin dual-supply, 8-bit configurable voltage interface transceiver suited for PCMCIA and other real time configurable I/O applications. The V_{CCA} pin accepts a 5V supply level. The "A" Port is a dedicated 5V port. The V_{CCB} pin accepts a 3V-to-5V supply level. The "B" Port is configured to track the V_{CCB} supply level respectively. A 5V level on the V_{CC} pin will configure the I/O pins at a 5V level and a 3V V_{CC} will configure the I/O pins at a 3V level. 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.

Features

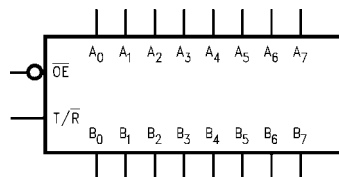
- Bidirectional interface between 5V and 3V-to-5V buses
- Control inputs compatible with TTL level
- Outputs source/sink up to 24 mA
- Guaranteed simultaneous switching noise level and dynamic threshold performance
- Implements patented EMI reduction circuitry
- Flexible V_{CCB} operating range
- Allows B Port and V_{CCB} to float simultaneously when \overline{OE} is HIGH
- Functionally compatible with the 74 series 245

Ordering Code:

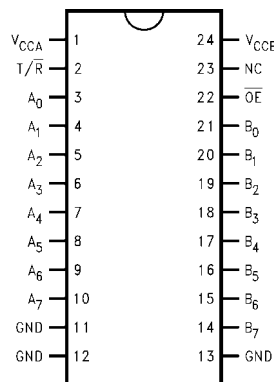
| Order Number | Package Number | Package Description |
|---------------|----------------|---|
| 74LVXC4245WM | M24B | 24-Lead Small Outline Integrated Circuit (SOIC), JEDEC MS-013, 0.300" Wide |
| 74LVXC4245QSC | MQA24 | 24-Lead Quarter Size Outline Package (QSOP), JEDEC MO-137, 0.150" Wide |
| 74LVXC4245MTC | MTC24 | 24-Lead Thin Shrink Small Outline Package (TSSOP), JEDEC MO-153, 4.4mm Wide |

Devices also available in Tape and Reel. Specify by appending the suffix letter "X" to the ordering code.

Logic Symbol



Connection Diagram



Pin Descriptions

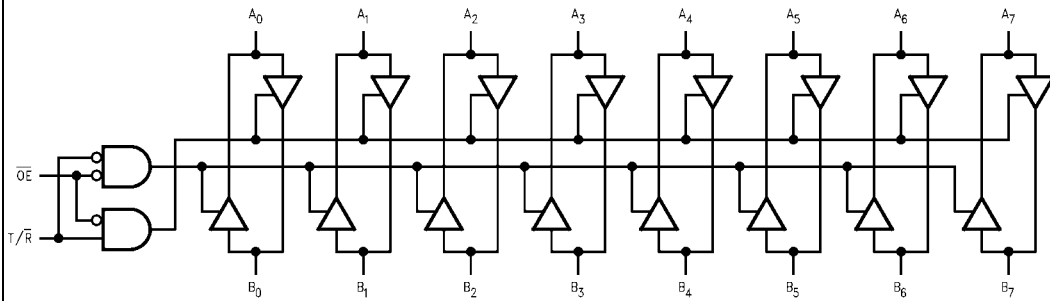
| Pin Names | Description |
|------------------|----------------------------------|
| \overline{OE} | Output Enable Input |
| T/\overline{R} | Transmit/Receive Input |
| A_0 - A_7 | Side A Inputs or 3-STATE Outputs |
| B_0 - B_7 | Side B Inputs or 3-STATE Outputs |

Truth Table

| Inputs | | Outputs |
|-----------------|------------------|---------------------|
| \overline{OE} | $\overline{T/R}$ | |
| L | L | Bus B Data to Bus A |
| L | H | Bus A Data to Bus B |
| H | X | HIGH-Z State |

H = HIGH Voltage Level
 L = LOW Voltage Level
 X = Immaterial

Logic Diagram



| Absolute Maximum Ratings (Note 1) | | | Recommended Operating Conditions (Note 2) | | | | |
|--|--|---------------------------|---|-----------------|--|--|--|
| Supply Voltage (V_{CCA}, V_{CCB}) | | -0.5V to +7.0V | Supply Voltage V_{CCA} | 4.5V to 5.5V | | | |
| DC Input Voltage (V_I) @ \overline{OE} , T/\overline{R} | | -0.5V to $V_{CCA} + 0.5V$ | V_{CCB} | 2.7V to 5.5V | | | |
| DC Input/Output Voltage ($V_{I/O}$) | | | Input Voltage (V_I) @ \overline{OE} , T/\overline{R} | 0V to V_{CCA} | | | |
| @ A_n | | -0.5V to $V_{CCA} + 0.5V$ | Input/Output Voltage ($V_{I/O}$) | | | | |
| @ B_n | | -0.5V to $V_{CCB} + 0.5V$ | @ A_n | 0V to V_{CCA} | | | |
| DC Input Diode Current (I_{IK}) | | | @ B_n | 0V to V_{CCB} | | | |
| @ \overline{OE} , T/\overline{R} | | ± 20 mA | Free Air Operating Temperature (T_A) | -40°C to +85°C | | | |
| DC Output Diode Current (I_{OK}) | | ± 50 mA | Minimum Input Edge Rate ($\Delta V/\Delta t$) | 8 ns/V | | | |
| DC Output Source or Sink Current (I_O) | | ± 50 mA | V_{IN} from 30% to 70% of V_{CC} | | | | |
| DC V_{CC} or Ground Current Per Output Pin (I_{CC} or I_{GND}) and Max Current | | ± 200 mA | V_{CC} @ 3V, 4.5V, 5.5V | | | | |
| Storage Temperature Range (T_{STG}) | | -65°C to +150°C | Note 1: The "Absolute Maximum Ratings" are those values beyond which the safety of the device cannot be guaranteed. The device should not be operated at these limits. The parametric values defined in the Electrical Characteristics tables are not guaranteed at the absolute maximum ratings. The "Recommended Operating Conditions" table will define the conditions for actual device operation. | | | | |
| DC Latch-Up Source or Sink Current | | ± 300 mA | Note 2: The A Port unused pins (inputs and I/O's) must be held HIGH or LOW. They may not float. | | | | |

DC Electrical Characteristics

| Symbol | Parameter | V_{CCA} (V) | V_{CCB} (V) | $T_A = +25^\circ\text{C}$ | | $T_A = -40^\circ\text{C to } +85^\circ\text{C}$ | | Units | Conditions |
|-----------|--|------------------|------------------|---------------------------|-------------------|---|-------------------|---|------------------------------|
| | | | | Typ | Guaranteed Limits | Typ | Guaranteed Limits | | |
| V_{IHA} | Minimum HIGH Level Input Voltage | A_n | 4.5 | 2.7 | 2.0 | 2.0 | V | $V_{OUT} \leq 0.1V$ or $\geq V_{CC} - 0.1V$ | |
| | | \overline{OE} | 4.5 | 3.6 | 2.0 | 2.0 | | | |
| | | T/\overline{R} | 5.5 | 5.5 | 2.0 | 2.0 | | | |
| V_{IHB} | | B_n | 4.5 | 2.7 | 2.0 | 2.0 | V | | |
| | | | 4.5 | 3.6 | 2.0 | 2.0 | | | |
| | | | 4.5 | 5.5 | 3.85 | 3.85 | | | |
| V_{ILA} | Maximum LOW Level Input Voltage | A_n | 4.5 | 2.7 | 0.8 | 0.8 | V | $V_{OUT} \leq 0.1V$ or $\geq V_{CC} - 0.1V$ | |
| | | \overline{OE} | 4.5 | 3.6 | 0.8 | 0.8 | | | |
| | | T/\overline{R} | 5.5 | 5.5 | 0.8 | 0.8 | | | |
| V_{ILB} | | B_n | 4.5 | 2.7 | 0.8 | 0.8 | V | | |
| | | | 4.5 | 3.6 | 0.8 | 0.8 | | | |
| | | | 4.5 | 5.5 | 1.65 | 1.65 | | | |
| V_{OHA} | Minimum HIGH Level Output Voltage | | 4.5 | 3.0 | 4.49 | 4.4 | V | $I_{OUT} = -100 \mu A$ $I_{OH} = -24 \text{ mA}$ | |
| | | | 4.5 | 3.0 | 4.25 | 3.86 | | | 3.76 |
| V_{OHB} | | | 4.5 | 3.0 | 2.99 | 2.9 | V | $I_{OUT} = -100 \mu A$ $I_{OH} = -12 \text{ mA}$ $I_{OH} = -24 \text{ mA}$ $I_{OH} = -12 \text{ mA}$ $I_{OH} = -24 \text{ mA}$ $I_{OH} = -24 \text{ mA}$ | |
| | | | 4.5 | 3.0 | 2.85 | 2.56 | | | 2.46 |
| | | | 4.5 | 3.0 | 2.65 | 2.35 | | | 2.25 |
| | | | 4.5 | 2.7 | 2.5 | 2.3 | | | 2.2 |
| | | | 4.5 | 2.7 | 2.3 | 2.1 | | | 2.0 |
| V_{OLA} | Maximum LOW Level Output Voltage | | 4.5 | 3.0 | 0.002 | 0.1 | V | $I_{OUT} = 100 \mu A$ $I_{OL} = 24 \text{ mA}$ | |
| | | | 4.5 | 3.0 | 0.21 | 0.36 | | | 0.44 |
| V_{OLB} | | | 4.5 | 3.0 | 0.002 | 0.1 | V | $I_{OUT} = 100 \mu A$ $I_{OL} = 24 \text{ mA}$ $I_{OL} = 12 \text{ mA}$ $I_{OL} = 24 \text{ mA}$ $I_{OL} = 24 \text{ mA}$ | |
| | | | 4.5 | 3.0 | 0.21 | 0.36 | | | 0.44 |
| | | | 4.5 | 2.7 | 0.11 | 0.36 | | | 0.44 |
| | | | 4.5 | 2.7 | 0.22 | 0.42 | | | 0.5 |
| | | | 4.5 | 4.5 | 0.18 | 0.36 | | | 0.44 |
| I_{IN} | Maximum Input Leakage Current @ \overline{OE} , T/\overline{R} | | 5.5 | 3.6 | | ± 0.1 | ± 1.0 | μA | $V_I = V_{CCA}, \text{ GND}$ |
| | | | 5.5 | 5.5 | | ± 0.1 | ± 1.0 | | |

| DC Electrical Characteristics (Continued) | | | | | | | | | |
|---|--|-------------------------|-------------------------|------------------------|-------------------|---------------------------------|-----|--|--|
| Symbol | Parameter | V _{CCA} (V) | V _{CCB} (V) | T _A = +25°C | | T _A = -40°C to +85°C | | Units | Conditions |
| | | | | Typ | Guaranteed Limits | | | | |
| I _{OZA} | Maximum 3-STATE Output Leakage @ A _n | 5.5 | 3.6 | | ±0.5 | ±5.0 | μA | V _I = V _{IL} , V _{IH} , \overline{OE} = V _{CCA} V _O = V _{CCA} , GND | |
| | | 5.5 | 5.5 | | ±0.5 | ±5.0 | | | |
| I _{OZB} | Maximum 3-STATE Output Leakage @ B _n | 5.5 | 3.6 | | ±0.5 | ±5.0 | μA | V _I = V _{IL} , V _{IH} , \overline{OE} = V _{CCA} V _O = V _{CCB} , GND | |
| | | 5.5 | 5.5 | | ±0.5 | ±5.0 | | | |
| ΔI _{CC} | Maximum I _{CC} /Input | All Inputs | 5.5 | 5.5 | 1.0 | 1.35 | 1.5 | mA | V _I = V _{CC} - 2.1V |
| | | B _n | 5.5 | 3.6 | | 0.35 | 0.5 | mA | V _I = V _{CCB} - 0.6V |
| I _{CCA1} | Quiescent V _{CCA} Supply Current as B Port Floats | 5.5 | Open | | 8 | 80 | μA | A _n = V _{CCA} or GND B _n = Open, \overline{OE} = V _{CCA} T/ \overline{R} = V _{CCA} , V _{CCB} = Open | |
| I _{CCA2} | Quiescent V _{CCA} Supply Current | 5.5 | 3.6 | | 8 | 80 | μA | A _n = V _{CCA} or GND B _n = V _{CCB} or GND \overline{OE} = GND, T/ \overline{R} = GND | |
| | | 5.5 | 5.5 | | 8 | 80 | | | |
| I _{CCB} | Quiescent V _{CCB} Supply Current | 5.5 | 3.6 | | 5 | 50 | μA | A _n = V _{CCA} or GND B _n = V _{CCB} or GND \overline{OE} = GND, T/ \overline{R} = V _{CCA} | |
| | | 5.5 | 5.5 | | 8 | 80 | | | |
| V _{OLPA} | Quiet Output Maximum Dynamic | 5.0 | 3.3 | | 1.5 | | V | (Note 3) (Note 4) | |
| V _{OLPB} | V _{OL} | 5.0 | 3.3 | | 0.8 | | V | (Note 3) (Note 4) | |
| | | 5.0 | 5.0 | | 1.5 | | | | |
| V _{OLVA} | Quiet Output Minimum Dynamic V _{OL} | 5.0 | 3.3 | | -1.2 | | V | (Note 3) (Note 4) | |
| | | 5.0 | 5.0 | | -1.2 | | | | |
| V _{OLVB} | | 5.0 | 3.3 | | -0.8 | | V | (Note 3) (Note 4) | |
| | | 5.0 | 5.0 | | -1.2 | | | | |
| V _{IHDA} | Minimum HIGH Level Dynamic Input | 5.0 | 3.3 | | 2.0 | | V | (Note 3) (Note 5) | |
| | | 5.0 | 5.0 | | 2.0 | | | | |
| V _{IHDB} | Voltage | 5.0 | 3.3 | | 2.0 | | V | (Note 3) (Note 5) | |
| | | 5.0 | 5.0 | | 3.5 | | | | |
| V _{ILDA} | Maximum LOW Level Dynamic Input | 5.0 | 3.3 | | 0.8 | | V | (Note 3) (Note 5) | |
| | | 5.0 | 5.0 | | 0.8 | | | | |
| V _{ILDB} | Voltage | 5.0 | 3.3 | | 0.8 | | V | (Note 3) (Note 5) | |
| | | 5.0 | 5.0 | | 1.5 | | | | |

Note 3: Worst case package.

Note 4: Max number of outputs defined as (n). Data inputs are driven 0V to V_{CC} level; one output at GND.

Note 5: Max number of Data Inputs (n) switching. (n-1) inputs switching 0V to V_{CC} level. Input-under-test switching: V_{CC} level to threshold (V_{IHD}), 0V to threshold (V_{ILD}), f = 1 MHz.

| AC Electrical Characteristics | | | | | | | | | | | | |
|-------------------------------|--|---|-----------------|-----|--|-----|---|-----------------|-----|--|------|-------|
| Symbol | Parameter | $C_L = 50 \text{ pF}$ $V_{CCA} = 4.5\text{V to }5.5\text{V}$ $V_{CCB} = 4.5\text{V to }5.5\text{V}$ | | | | | $C_L = 50 \text{ pF}$ $V_{CCA} = 4.5\text{V to }5.5\text{V}$ $V_{CCB} = 2.7\text{V to }3.6\text{V}$ | | | | | Units |
| | | $T_A = +25^\circ\text{C}$ | | | $T_A = -40^\circ\text{C to }+85^\circ\text{C}$ | | $T_A = +25^\circ\text{C}$ | | | $T_A = -40^\circ\text{C to }+85^\circ\text{C}$ | | |
| | | Min | Typ (Note 6) | Max | Min | Max | Min | Typ (Note 7) | Max | Min | Max | |
| t_{PHL} | Propagation Delay A to B | 1.0 | 4.9 | 6.5 | 1.0 | 7.0 | 1.0 | 5.5 | 7.5 | 1.0 | 8.0 | ns |
| t_{PLH} | Propagation Delay B to A | 1.0 | 4.7 | 6.5 | 1.0 | 7.0 | 1.0 | 5.6 | 7.5 | 1.0 | 8.0 | |
| t_{PZH} | Output Enable Time \overline{OE} to B | 1.0 | 5.6 | 7.5 | 1.0 | 8.0 | 1.0 | 6.7 | 9.0 | 1.0 | 10.0 | ns |
| t_{PZH} | Output Enable Time \overline{OE} to A | 1.0 | 5.7 | 7.5 | 1.0 | 8.0 | 1.0 | 6.9 | 9.5 | 1.0 | 10.0 | |
| t_{PHZ} | Output Disable Time \overline{OE} to B | 1.0 | 4.8 | 7.0 | 1.0 | 7.5 | 1.0 | 6.0 | 9.0 | 1.0 | 9.5 | ns |
| t_{PLZ} | Output Disable Time \overline{OE} to A | 1.0 | 3.8 | 5.5 | 1.0 | 6.0 | 1.0 | 4.2 | 6.5 | 1.0 | 7.0 | |
| t_{OSHL} | Output to Output Skew (Note 8) | | 1.0 | 1.5 | | 1.5 | | 1.0 | 1.5 | | 1.5 | ns |
| t_{OSLH} | Data to Output | | | | | | | | | | | |

Note 6: Typical values at $V_{CCA} = 5\text{V}$, $V_{CCB} = 5\text{V}$ @ 25°C .

Note 7: Typical values at $V_{CCA} = 5\text{V}$, $V_{CCB} = 3.3\text{V}$ @ 25°C .

Note 8: 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.

Capacitance

| Symbol | Parameter | Typ | Units | Conditions | |
|-----------|--|-----|-------|---|-------------------------|
| C_{IN} | Input Capacitance | 4.5 | pF | $V_{CC} = \text{Open}$ | |
| $C_{I/O}$ | Input/Output Capacitance | 10 | pF | $V_{CCA} = 5\text{V}$, $V_{CCB} = 3.3\text{V}$ | |
| C_{PD} | Power Dissipation Capacitance (Note 9) | A→B | 45 | pF | $V_{CCA} = 5\text{V}$ |
| | | B→A | 50 | pF | $V_{CCB} = 3.3\text{V}$ |

Note 9: C_{PD} is measured at 10 MHz.

Power Up Considerations

To insure the system does not experience unnecessary I_{CC} current draw, bus contention, or oscillations during power up, the following guidelines should be adhered to (refer to Table 1):

- Power up the control side of the device first. This is the V_{CCA} .
- \overline{OE} should ramp with or ahead of V_{CCA} . This will help guard against bus contention.
- The Transmit/Receive control pin (T/\overline{R}) should ramp with V_{CCA} , this will ensure that the A Port data pins are configured as inputs. With V_{CCA} receiving power first, the A I/O Port should be configured as inputs to help guard against bus contention and oscillations.
- A side data inputs should be driven to a valid logic level. This will prevent excessive current draw.

The above steps will ensure that no bus contention or oscillations, and therefore no excessive current draw occurs during the power up cycling of these devices. These steps will help prevent possible damage to the translator devices and potential damage to other system components.

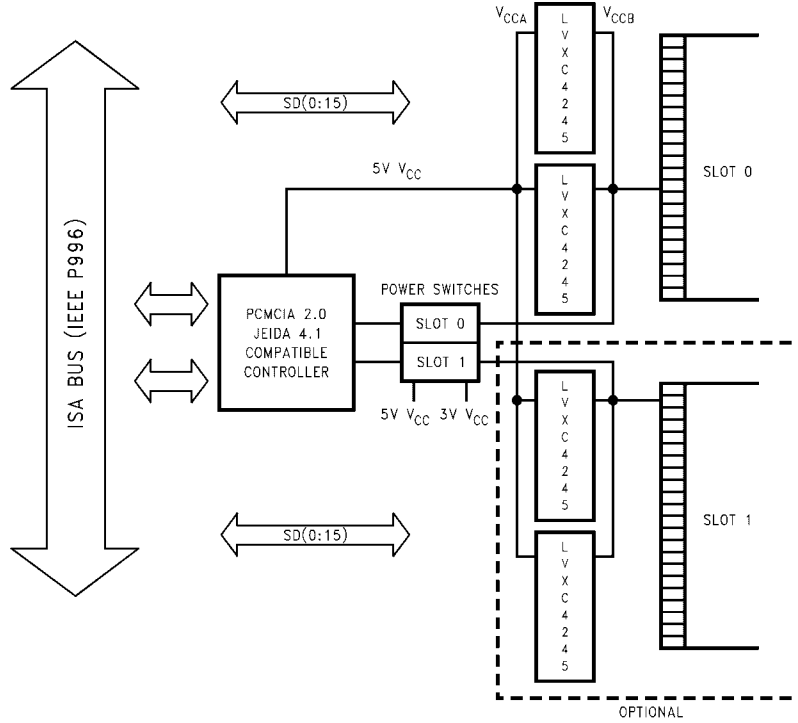
TABLE 1. Low Voltage Translator Power Up Sequencing Table

| Device Type | V_{CCA} | V_{CCB} | T/\overline{R} | \overline{OE} | A Side I/O | B Side I/O | Floatable Pin Allowed |
|-------------|----------------------|------------------------------|------------------------|------------------------|--------------------------|------------|--|
| 74LVXC4245 | 5V (power up 1st) | 2.7V to 5.5V configurable | ramp with V_{CCA} | ramp with V_{CCA} | logic 0V or V_{CCA} | outputs | yes, V_{CCB} and B I/O's w/ \overline{OE} HIGH |

Please reference Application Note AN-5001 for more detailed information on using Fairchild's LVX Low Voltage Dual Supply CMOS Translating Transceivers.

Configurable I/O Application for PCMCIA Cards

Block Diagram

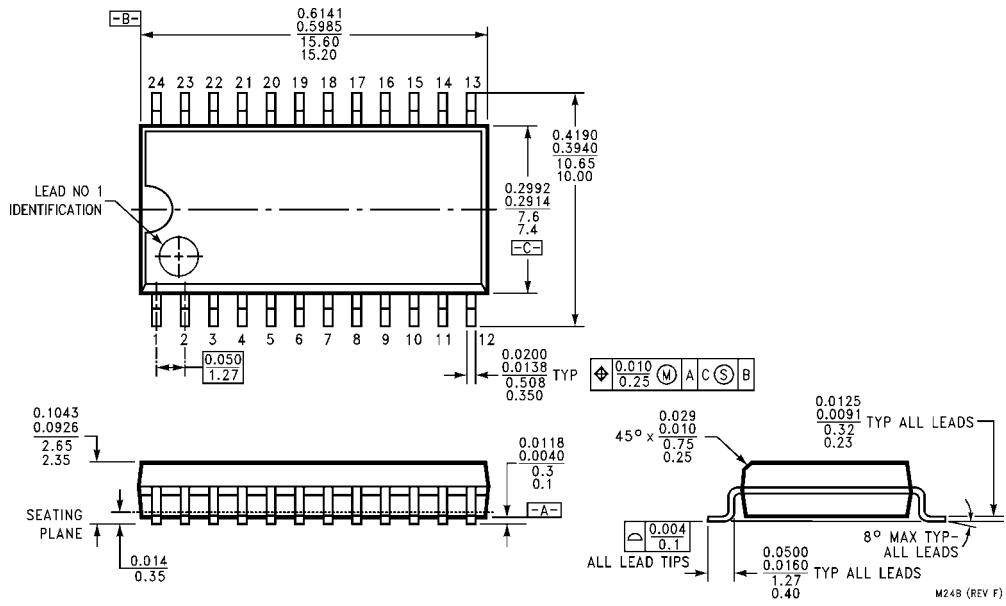


The LVXC4245 is a 24-pin dual supply device well suited for PCMCIA configurable I/O applications. Ideal for low power notebook designs, the LVXC4245 consumes less than 1 mW of quiescent power in all modes of operation. The LVXC4245 meets all PCMCIA I/O voltage requirements at 5V and 3.3V operation. By tying V_{CCB} of the LVXC4245 to the card voltage supply, the PCMCIA card

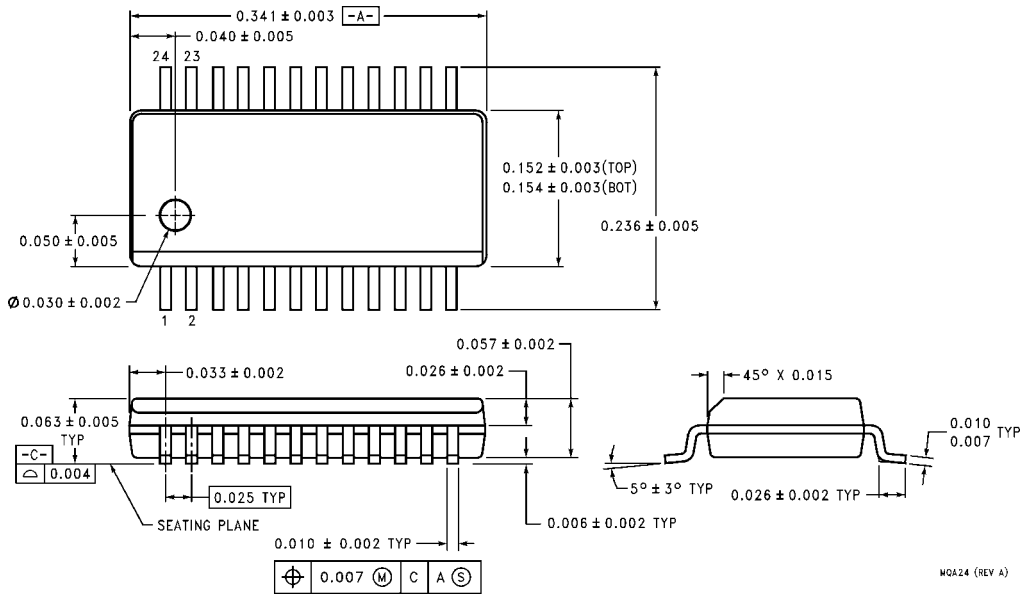
will always experience rail to rail output swings, maximizing the reliability of the interface.

The V_{CCA} pin on the LVXC4245 must always be tied to a 5V power supply. This voltage connection provides internal references needed to account for variations in V_{CCB} . When connected as in the block diagram above, the LVXC4245 meets all the voltage and current requirements of the ISA bus standard (IEEE P996).

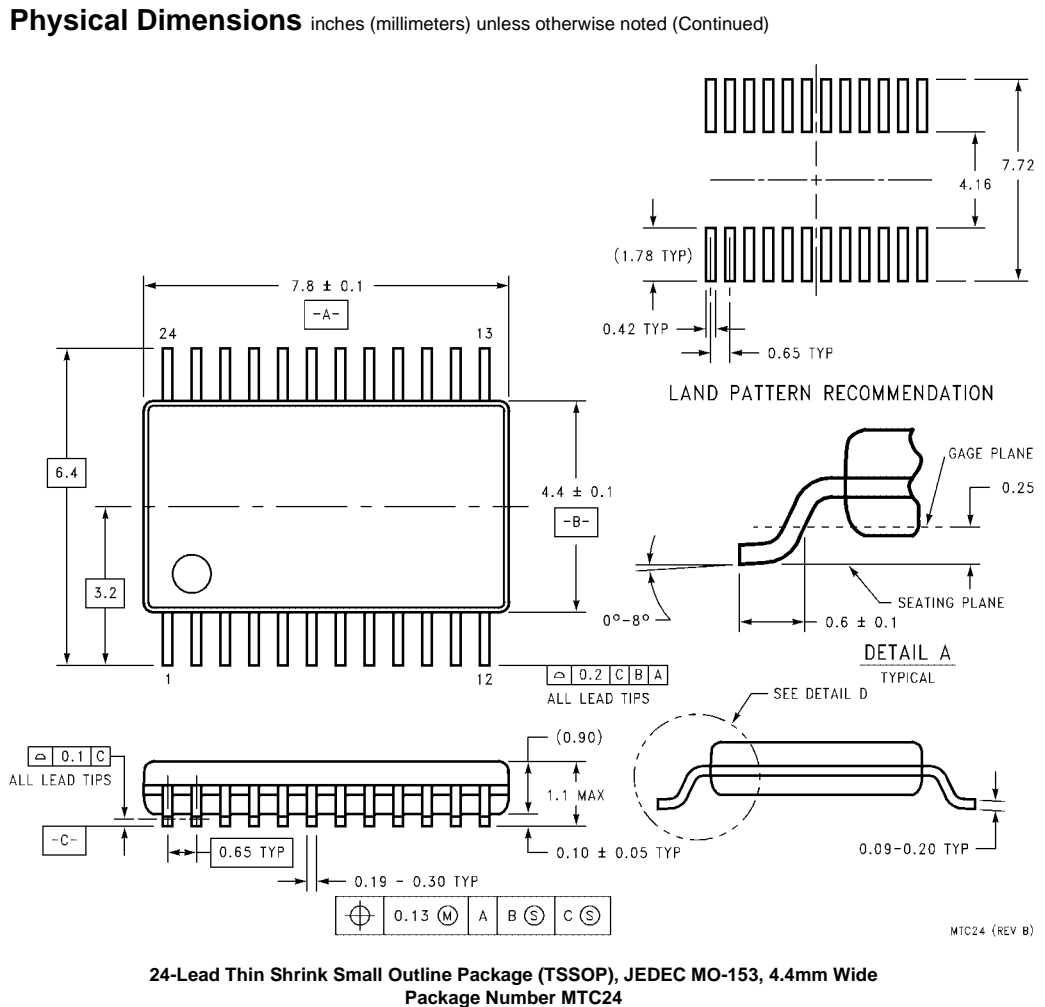
Physical Dimensions inches (millimeters) unless otherwise noted



**24-Lead Small Outline Integrated Circuit (SOIC), JEDEC MS-013, 0.300" Wide
Package Number M248**



**24-Lead Quarter Size Outline Package (QSOP), JEDEC MO-137, 0.150" Wide
Package Number MQA24**



Fairchild does not assume any responsibility for use of any circuitry described, no circuit patent licenses are implied and Fairchild reserves the right at any time without notice to change said circuitry and specifications.

LIFE SUPPORT POLICY

FAIRCHILD'S PRODUCTS ARE NOT AUTHORIZED FOR USE AS CRITICAL COMPONENTS IN LIFE SUPPORT DEVICES OR SYSTEMS WITHOUT THE EXPRESS WRITTEN APPROVAL OF THE PRESIDENT OF FAIRCHILD SEMICONDUCTOR CORPORATION. As used herein:

1. Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body, or (b) support or sustain life, and (c) whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in a significant injury to the user.
2. A critical component in any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

www.fairchildsemi.com

ON Semiconductor and  are trademarks of Semiconductor Components Industries, LLC dba ON Semiconductor or its subsidiaries in the United States and/or other countries. ON Semiconductor owns the rights to a number of patents, trademarks, copyrights, trade secrets, and other intellectual property. A listing of ON Semiconductor's product/patent coverage may be accessed at www.onsemi.com/site/pdf/Patent-Marking.pdf. ON Semiconductor reserves the right to make changes without further notice to any products herein. ON Semiconductor makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does ON Semiconductor assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. Buyer is responsible for its products and applications using ON Semiconductor products, including compliance with all laws, regulations and safety requirements or standards, regardless of any support or applications information provided by ON Semiconductor. "Typical" parameters which may be provided in ON Semiconductor data sheets and/or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including "Typicals" must be validated for each customer application by customer's technical experts. ON Semiconductor does not convey any license under its patent rights nor the rights of others. ON Semiconductor products are not designed, intended, or authorized for use as a critical component in life support systems or any FDA Class 3 medical devices or medical devices with a same or similar classification in a foreign jurisdiction or any devices intended for implantation in the human body. Should Buyer purchase or use ON Semiconductor products for any such unintended or unauthorized application, Buyer shall indemnify and hold ON Semiconductor and its officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, costs, damages, and expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized use, even if such claim alleges that ON Semiconductor was negligent regarding the design or manufacture of the part. ON Semiconductor is an Equal Opportunity/Affirmative Action Employer. This literature is subject to all applicable copyright laws and is not for resale in any manner.

PUBLICATION ORDERING INFORMATION

LITERATURE FULFILLMENT:

Literature Distribution Center for ON Semiconductor
19521 E. 32nd Pkwy, Aurora, Colorado 80011 USA
Phone: 303-675-2175 or 800-344-3860 Toll Free USA/Canada
Fax: 303-675-2176 or 800-344-3867 Toll Free USA/Canada
Email: orderlit@onsemi.com

N. American Technical Support: 800-282-9855 Toll Free
USA/Canada
Europe, Middle East and Africa Technical Support:
Phone: 421 33 790 2910
Japan Customer Focus Center
Phone: 81-3-5817-1050

ON Semiconductor Website: www.onsemi.com
Order Literature: <http://www.onsemi.com/orderlit>
For additional information, please contact your local
Sales Representative

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- ⊖ [View 74LVXC4245MTCX on WIN SOURCE](#)
- ⊖ [Fairchild/ON Semiconductor Information](#)

Optimize Your Supply Chain with WIN SOURCE Solutions

- ✓ Global Sourcing Solution
- ✓ Obsolete Management
- ✓ Cost Control Management
- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management