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74LVXC3245

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

Features

- Bidirectional interface between 3V 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 proprietary 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

General Description

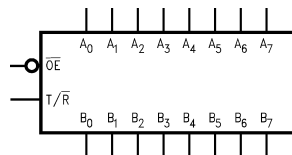
The LVXC3245 is a 24-pin dual-supply, 8-bit configurable voltage interface transceiver suited for PCMCIA and other real time configurable I/O applications. The V_{CCA} pin accepts a 3V supply level. The A Port is a dedicated 3V port. The V_{CCB} pin accepts a 3V-to-5V supply level. The B Port is configured 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. The A Port should interface with a 3V 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.

Ordering Code:

Order Number	Package Number	Package Description
74LVXC3245WM	M24B	224-Lead Small Outline Integrated Circuit (SOIC), JEDEC MS-013, 0.300" Wide
74LVXC3245QSC	MQA24	24-Lead Quarter Size Outline Package (QSOP), JEDEC MO-137, 0.150" Wide
74LVXC3245MTC	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 suffix letter "X" to the ordering code.

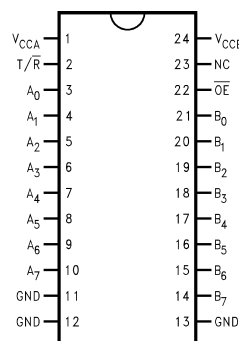
Logic Symbol/s



Pin Descriptions

Pin Names	Description
$\overline{OE}$	Output Enable Input
T/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

Connection Diagram/s

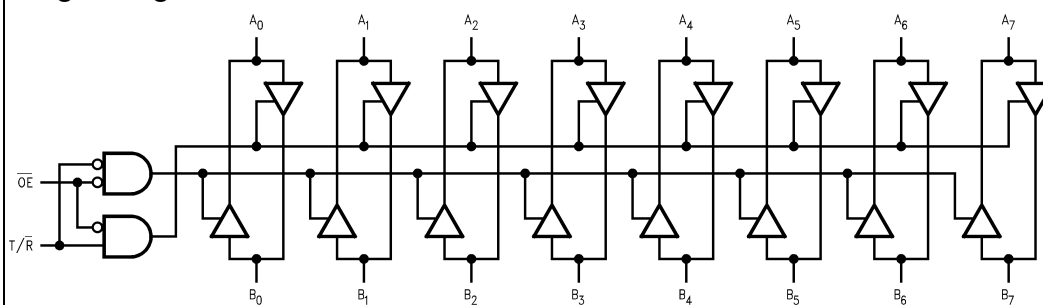


Truth Table/s

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/s



Absolute Maximum Ratings^(Note 1)

Supply Voltage (V_{CCA}, V_{CCB})	−0.5V to +7.0V
DC Input Voltage (V_I) @ $\overline{OE}$, $T/\overline{R}$	−0.5V to V_{CCA} +0.5V
DC Input/Output Voltage ($V_{I/O}$)	
@ A_n	−0.5V to V_{CCA} +0.5V
@ B_n	−0.5V to V_{CCB} +0.5V
DC Input Diode Current (I_{IK})	
@ $\overline{OE}$, $T/\overline{R}$	±20 mA
DC Output Diode (I_{OK}) Current	±50 mA
DC Output Source or Sink Current (I_O)	±50 mA
DC V_{CC} or Ground Current	
per Output Pin (I_{CC} or I_{GND})	±50 mA
and Max Current	±200 mA
Storage Temperature Range (T_{STG})	−65°C to +150°C
DC Latch-Up Source or Sink Current	±300 mA

Recommended Operating Conditions^(Note 2)

Supply Voltage	2.7V to 3.6V
V_{CCA}	3.0V to 5.5V
V_{CCB}	0V to V_{CCA}
Input Voltage (V_I) @ $\overline{OE}$, $T/\overline{R}$	0V to V_{CCA}
Input Output Voltage ($V_{I/O}$)	
@ A_n	0V to V_{CCA}
@ B_n	0V to V_{CCB}
Free Air Operating Temperature (T_A)	−40°C to +85°C
Minimum Input Edge Rate ($\Delta t/\Delta V$)	8 ns/V
V_{IN} from 30% to 70% of V_{CC}	
V_{CC} @ 3.0V, 4.5V, 5.5V	

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.

Note 2: The A Port unused pins (inputs or I/Os) must be held HIGH or LOW. They may not float.

DC Electrical Characteristics

Symbol	Parameter		V _{CCA} (V)	V _{CCB} (V)	T _A = 25°C		T _A = -40°C to +85°C		Units	Conditions
					Typ	Guaranteed Limits				
V _{IHA}	Minimum HIGH Level Input Voltage	A _n , OE	2.7	3.0		2.0	2.0	V	V _{OUT} ≤ 0.1V or ≥V _{CC} - 0.1V	
		T/R	3.0	3.6		2.0	2.0			
			3.6	5.5		2.0	2.0			
V _{IHB}		B _n	2.7	3.0		2.0	2.0			
			3.0	3.6		2.0	2.0			
			3.6	5.5		3.85	3.85			
V _{ILA}	Maximum LOW Level Input Voltage	A _n , OE	2.7	3.0		0.8	0.8	V	V _{OUT} ≤ 0.1V or ≥V _{CC} - 0.1V	
		T/R	3.0	3.6		0.8	0.8			
			3.6	5.5		0.8	0.8			
V _{ILB}		B _n	2.7	3.0		0.8	0.8			
			3.0	3.6		0.8	0.8			
			3.6	5.5		1.65	1.65			
V _{OHA}	Minimum HIGH Level Output Voltage		3.0	3.0	2.99	2.9	2.9	V	I _{OUT} = -100 μA I _{OH} = -12 mA I _{OH} = -24 mA I _{OH} = -12 mA I _{OH} = -24 mA	
			3.0	3.0	2.85	2.56	2.46			
			3.0	3.0	2.65	2.35	2.25			
			2.7	3.0	2.5	2.3	2.2			
			2.7	4.5	2.3	2.1	2.0			
V _{OHB}			3.0	3.0	2.99	2.9	2.9	V	I _{OUT} = -100 μA I _{OH} = -12 mA I _{OH} = -24 mA I _{OH} = -24 mA I _{OH} = -24 mA	
			3.0	3.0	2.85	2.56	2.46			
			3.0	3.0	2.65	2.35	2.25			
			3.0	4.5	4.25	3.86	3.76			
V _{OLA}	Maximum LOW Level Output Voltage		3.0	3.0	0.002	0.1	0.1	V	I _{OUT} = 100 μA I _{OL} = 24 mA I _{OL} = 12 mA I _{OL} = 24 mA	
			3.0	3.0	0.21	0.36	0.44			
			2.7	3.0	0.11	0.36	0.44			
			2.7	4.5	0.22	0.42	0.5			
V _{OLB}			3.0	3.0	0.002	0.1	0.1	V	I _{OUT} = 100 μA I _{OL} = 24 mA I _{OL} = 24 mA I _{OL} = 24 mA	
			3.0	3.0	0.21	0.36	0.44			
			3.0	4.5	0.18	0.36	0.44			
I _{IN}	Maximum Input Leakage Current @ OE, T/R		3.6	3.6		±0.1	±1.0	μA	V _I = V _{CCA} , GND	
			3.6	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		3.6 3.6	3.6 5.5		±0.5 ±0.5	±5.0 ±5.0		μA	V _I = V _{IL} , V _{IH} , OE = V _{CCA} , V _O = V _{CCA} , GND
I _{OZB}	Maximum 3-STATE Output Leakage @ B _n		3.6 3.6	3.6 5.5		±0.5 ±0.5	±5.0 ±5.0		μA	V _I = V _{IL} , V _{IH} , OE = V _{CCA} , V _O = V _{CCB} , GND
ΔI _{CC}	Maximum	B _n	3.6	5.5	1.0	1.35	1.5	mA		V _I = V _{CCB} -2.1V
	I _{CC} /Input	All Inputs	3.6	3.6		0.35	0.5			V _I = V _{CC} -0.6V
I _{CCA1}	Quiescent V _{CCA} Supply Current as B Port Floats		3.6	Open		5	50		μA	A _n = V _{CCA} or GND B _n = Open, OE = V _{CCA} , T/R = V _{CCA} , V _{CCB} = Open
I _{CCA2}	Quiescent V _{CCA} Supply Current		3.6 3.6	3.6 5.5		5 5	50 50		μA	A _n = V _{CCA} or GND, B _n = V _{CCB} or GND, OE = GND, T/R = GND
I _{CCB}	Quiescent V _{CCB} Supply Current		3.6 3.6	3.6 5.5		5 8	50 80		μA	A _n = V _{CCA} or GND, B _n = V _{CCB} or GND, OE = GND, T/R = V _{CCA}
V _{OLPA}	Quiet Output Maximum Dynamic		3.3 3.3	3.3 5.0		0.8 0.8			V	(Note 3)(Note 4)
V _{OLPB}	V _{OL}		3.3 3.3	3.3 5.0		0.8 1.5			V	(Note 3)(Note 4)
V _{OLVA}	Quiet Output Minimum Dynamic		3.3 3.3	3.3 5.0		-0.8 -0.8			V	(Note 3)(Note 4)
V _{OLVB}	V _{OL}		3.3 3.3	3.3 5.0		-0.8 -1.2			V	(Note 3)(Note 4)
V _{IHDA}	Minimum HIGH Level Dynamic		3.3 3.3	3.3 5.0		2.0 2.0			V	(Note 3)(Note 5)
V _{IHDB}	Input Voltage		3.3 3.3	3.3 5.0		2.0 3.5			V	(Note 3)(Note 5)
V _{ILDA}	Maximum LOW Level Dynamic		3.3 3.3	3.3 5.0		0.8 0.8			V	(Note 3)(Note 5)
V _{ILDB}	Input Voltage		3.3 3.3	3.3 5.0		0.8 1.5			V	(Note 3)(Note 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	T _A = +25°C C _L = 50 pF V _{CCA} = 2.7V–3.6V V _{CCB} = 4.5V–5.5V			T _A = –40°C to +85°C C _L = 50 pF V _{CCA} = 2.7V–3.6V V _{CCB} = 4.5V–5.5V		T _A = +25°C C _L = 50 pF V _{CCA} = 2.7V–3.6V V _{CCB} = 3.0V–3.6V			T _A = –40°C to +85°C C _L = 50 pF V _{CCA} = 2.7V–3.6V V _{CCB} = 3.0V–3.6V		Units
		Min	Typ (Note 6)	Max	Min	Max	Min	Typ (Note 7)	Max	Min	Max	
t _{PHL}	Propagation Delay	1.0	4.8	8.0	1.0	8.5	1.0	5.5	8.5	1.0	9.0	ns
t _{PLH}	A to B	1.0	3.9	6.5	1.0	7.0	1.0	5.2	8.0	1.0	8.5	
t _{PHL}	Propagation Delay	1.0	3.8	6.5	1.0	7.0	1.0	4.4	7.0	1.0	7.5	ns
t _{PLH}	B to A	1.0	4.3	7.5	1.0	8.0	1.0	5.1	7.5	1.0	8.0	
t _{PZL}	Output Enable Time	1.0	4.7	8.0	1.0	8.5	1.0	6.0	9.0	1.0	9.5	ns
t _{PZH}	$\overline{\text{OE}}$ to B	1.0	4.8	8.5	1.0	9.0	1.0	6.1	9.5	1.0	10.0	
t _{PZL}	Output Enable Time	1.0	5.9	9.5	1.0	10.0	1.0	6.4	10.0	1.0	10.5	ns
t _{PZH}	$\overline{\text{OE}}$ to A	1.0	5.4	9.0	1.0	9.5	1.0	5.8	9.0	1.0	9.5	
t _{PHZ}	Output Disable Time	1.0	4.0	8.0	1.0	8.5	1.0	6.3	9.5	1.0	10.0	ns
t _{PLZ}	$\overline{\text{OE}}$ to B	1.0	3.8	7.5	1.0	8.0	1.0	4.5	8.0	1.0	8.5	
t _{PHZ}	Output Disable Time	1.0	4.6	9.5	1.0	10.0	1.0	5.2	9.5	1.0	10.0	ns
t _{PLZ}	$\overline{\text{OE}}$ to A	1.0	3.1	6.5	1.0	7.0	1.0	3.4	6.5	1.0	7.0	
t _{OSHL}	Output to Output											ns
t _{OSLH}	Skew (Note 8) Data to Output		1.0	1.5		1.5		1.0	1.5		1.5	

Note 6: Typical values at V_{CCA} = 3.3V, V_{CCB} = 5.0V @ 25°C.

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

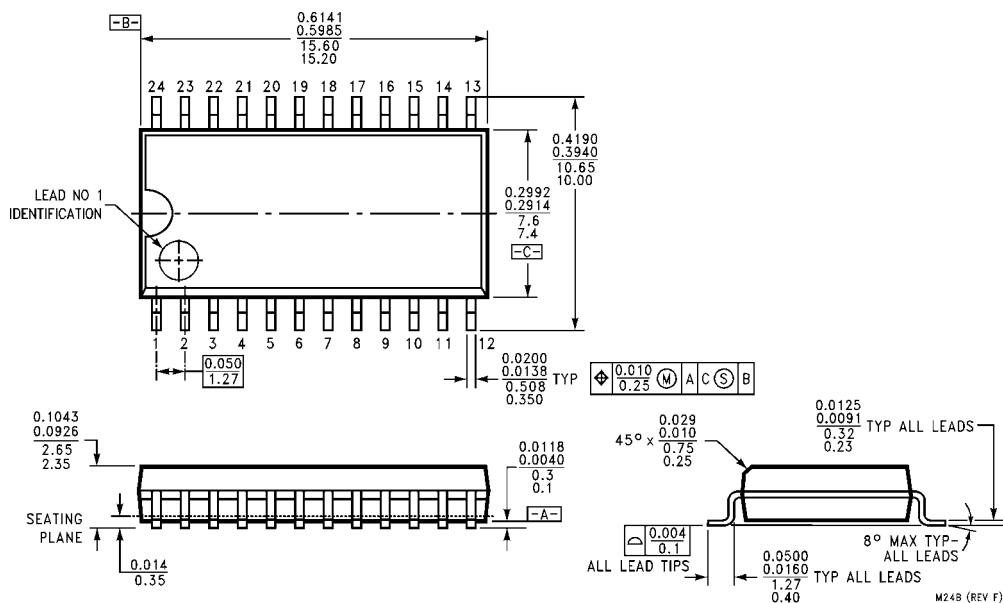
Note 8: Skew is defined as the absolute value of the difference between the actual propagation delay for any two separate outputs of the same device. The specification applies to any outputs switching in the same direction, either HIGH-to-LOW (t_{OSHL}) or LOW-to-HIGH (t_{OSLH}). Parameter guaranteed by design.

Capacitance

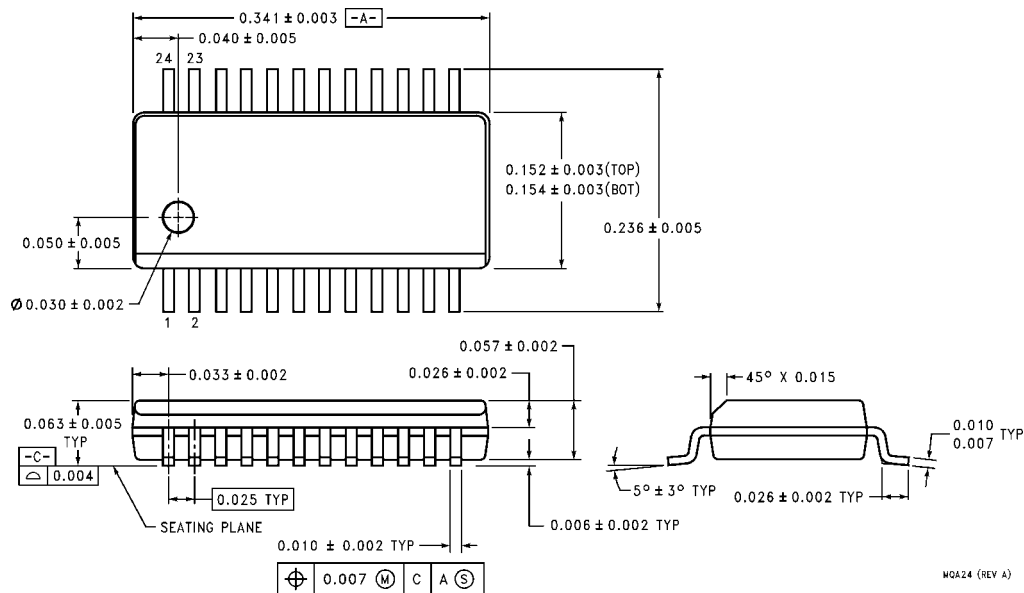
Symbol	Parameter		Typ	Units	Conditions
C _{IN}	Input Capacitance		4.5	pF	V _{CC} = Open
C _{I/O}	Input/Output Capacitance		10	pF	V _{CCA} = 3.3V V _{CCB} = 5.0V
C _{PD}	Power Dissipation	A→B	50	pF	V _{CCB} = 5.0V
	Capacitance (Note 9)	B→A	40	pF	V _{CCA} = 3.3V

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

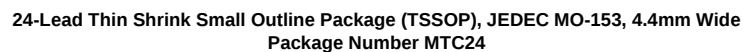
Physical Dimensions inches (millimeters) unless otherwise noted



24-Lead Small Outline Integrated Circuit (SOIC), JEDEC MS-013, 0.300" Wide
Package Number M24B



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



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