August 2024

# 74LCXR2245

# Low Voltage Bidirectional Transceiver with 5V Tolerant Inputs and Outputs and 26 $\Omega$ Series Resistors on Both A and B Ports

### **Features**

- 5V tolerant inputs and outputs
- 2.3V-3.6V V<sub>CC</sub> specifications provided
- 8.0ns  $t_{PD}$  max. ( $V_{CC} = 3.3V$ ),  $10\mu A I_{CC}$  max.
- Power down high impedance inputs and outputs
- Supports live insertion/withdrawal<sup>(1)</sup>
- ±12mA output drive (V<sub>CC</sub> = 3.0V)
- Implements proprietary noise/EMI reduction circuitry
- Latch-up performance exceeds 500mA
- Equivalent  $26\Omega$  series resistor on all outputs
- ESD performance:
  - Human body model > 2000V
  - Machine model > 200V

#### Note:

1. To ensure the high-impedance state d'inig no ler up or down, OE should be tied to Voc though a pun-up resistor: the minimum value or the resistor.

# **General Description**

The LCXR2245 contains eight non-inverting bidirectional buffers with 3-STATE outputs and is intended for bus oriented applications. The device is designed for low voltage (2.5V and 3.3V)  $V_{CC}$  applications with capability of interfacing to a 5V sign . Vironment. The  $\sqrt{R}$  input determines the direction of data flow through the device. The  $\overline{OE}$  input discuss both the A and B ports by placing them in a high important state. The  $26\Omega$  series resistor helps reduce the contained and undershoot.

The LC 'R2 '45's fabricated with an advanced CMOS 'ec to achieve high speed operation while maintain CMOS low power dissipation.

# Ordering Internation

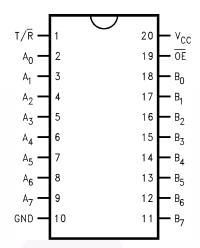
	Package	OF STATE OF THE PARTY OF THE PA
Order Number	Number	Package Description
74LCXR2245\ViV	M205	20-Lead Small Outline Integrated Circuit (SOIC), JEDEC MS-013, 0.300" Wide
74LCXR2245SJ	M20D	20-Lead Small Outline Package (SOP), EIAJ TYPE II, 5.3mm Wide
74LCXR2245MSA	MSA20	20-Lead Shrink Small Outline Package (SSOP), JEDEC MO-150, 5.3mm Wide
74LCXR2245MTC	MTC20	20-Lead Thin Shrink Small Outline Package (TSSOP), JEDEC MO-153, 4.4mm Wide

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



All packages are lead free per JEDEC: J-STD-020B standard.

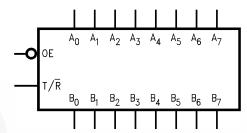
# **Connection Diagram**



# **Pin Description**

Pin Names	Description
ŌĒ	Output Enable Input
T/R	Transmit/Receive Input
A <sub>0</sub> -A <sub>7</sub>	Side A Inputs or 3-STATE Outputs
B <sub>0</sub> –B <sub>7</sub>	Side B Inputs or 3-STATE Outp

# **Logic Symbol**



# **Truth Table**

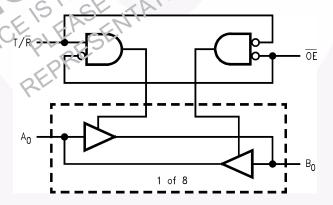
Inp	uts	
ŌĒ	T/R	Outputs Ch
L	L,	us P <sub>0</sub> - 3-7 ata to Bus A <sub>0</sub> - A <sub>7</sub>
L	Н	B s A A <sub>7</sub> Data to Bus B <sub>0</sub> – B <sub>7</sub>
Н		IIGH 7 State on A <sub>0</sub> – A <sub>7</sub> , B <sub>0</sub> – B <sub>7</sub> <sup>(2)</sup>

- H .. ~ Voltage Level
- L · L W Voltage Level
- X = immaterial
- Z = High Impedance

### lvoće:

2. Unused bus ferminals during HIGH Z State must be held HiGH or LOW.

# Logic Diagram



# **Absolute Maximum Ratings**

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only.

Symbol	Parameter	Rating
V <sub>CC</sub>	Supply Voltage	-0.5V to +7.0V
V <sub>I</sub>	DC Input Voltage	-0.5V to +7.0V
Vo	DC Output Voltage	
	Output in 3-STATE	-0.5V to +7.0V
	Output in HIGH or LOW State <sup>(3)</sup>	–0.5V to V <sub>CC</sub> + 0.5V
I <sub>IK</sub>	DC Input Diode Current, V <sub>I</sub> < GND	–50mA
I <sub>OK</sub>	DC Output Diode Current	
	V <sub>O</sub> < GND	-50mA
	$V_{O} > V_{CC}$	+50mA
Io	DC Output Source/Sink Current	±50mA
I <sub>CC</sub>	DC Supply Current per Supply Pin	±100mA
I <sub>GND</sub>	DC Ground Current per Ground Pin	±100mA
T <sub>STG</sub>	Storage Temperature	−65°C to +150°C

Recommended Operating C ndit or s<sup>(4)</sup>

The Recommended Operating C nditions the defines the conditions operating conditions are specified to enforce operating conditions are specified to enforce operating conditions. The Recommended Operating Conditions to define the conditions for actual device operation. Recommended operating conditions are specified to enrure optimal performance to the datasheet specifications. Fairchild does not

Symbol	Parameter	Min.	Max.	Units
V <sub>CC</sub>	S apply oltage			
	erating	2.0	3.6	V
	Data Retention	1.5	3.6	
VI	input Voltage	0	5.5	V
Vo	Output Voltage			
	HIGH or LOW State	0	V <sub>CC</sub>	V
	3-STATE	0	5.5	
I <sub>OH</sub> / I <sub>OL</sub>	Output Current		3	
	$V_{CC} = 3.0V - 3.6V$		±12	mA
	$V_{CC} = 2.7V - 3.0V$		±8	
	V <sub>CC</sub> = 2.3V–2.7V		±4	
T <sub>A</sub>	Free-Air Operating Temperature	-40	85	°C
Δt / ΔV	Input Edge Rate, V <sub>IN</sub> = 0.8V–2.0V, V <sub>CC</sub> = 3.0V	0	10	ns/V

4. Unused inputs must be held HIGH or LOW. They may not float.

# **DC Electrical Characteristics**

				$T_A = -40$ °C	to +85°C	
Symbol	Parameter	V <sub>CC</sub> (V)	Conditions	Min	Max	Units
V <sub>IH</sub>	HIGH Level Input Voltage	2.3–2.7		1.7		V
		2.7–3.6		2.0		
V <sub>IL</sub>	LOW Level Input Voltage	2.3–2.7			0.7	V
		2.7–3.6			0.8	
V <sub>OH</sub>	HIGH Level Output Voltage	2.3–3.6	$I_{OH} = -100 \mu A$	V <sub>CC</sub> - 0.2		V
		2.3	$I_{OH} = -4mA$	1.8		
		2.7	$I_{OH} = -4mA$	2.2		
		3.0	$I_{OH} = -6mA$	2.4		
		2.7	$I_{OH} = -8mA$	2.0		
		3.0	$I_{OH} = -12mA$		(1)	
$V_{OL}$	LOW Level Output Voltage	2.3–3.6	$I_{OL} = 100 \mu A$		0.2	V
		2.3	$I_{OL} = 4mA$		0.6	
		2.7	$I_{OL} = 4mA$	N	0.4	
		3.0	$I_{OL} = 6mA$	ONL	0.55	
		2.7	17L -8, 4	in all	0.6	
		3.0	J <sup>D</sup> = 5u' '	Se1,10	0.8	
I <sub>I</sub>	Input Leakage Current	23–3	$0  V_1 \le 5.5V$	"AAA"	±5.0	μΑ
I <sub>OZ</sub>	3-STATE I/O Leakage	2ა.	$0 \le V_{Ci} \le 5.5V$ , $V_{i} = V_{iH} \text{ or } V_{iL}$	DR14	±5.0	μA
$I_{OFF}$	Power-Off Leakage Canent	0 - 0	$V_1 \text{ or } V_0 = 5.5 V$		10	μA
I <sub>CC</sub>	Quiescent Surch Corent	23-3.6	$V_i = V_{CC}$ or GND		10	μΑ
	15	2.3–3.6	$3.6V \le V_1, V_0 \le 5.5V^{(5)}$		±10	
$\Delta I_{CC}$	Incr. in C. input	2.3-3.6	$V_{iH} = V_{CC} - 0.6V$		500	μΑ

### Note:

5. Outputs disable or 3-STATE only.

# **AC Electrical Characteristics**

	, and the second	T <sub>A</sub> = -4		40°C to +85°C, $R_L = 500\Omega$				
		V <sub>CC</sub> = 3.3 C <sub>L</sub> =	V ± 0.3V, 50pF		2.7V, 50pF	V <sub>CC</sub> = 2.5 C <sub>L</sub> =	5V ± 0.2V, 30pF	
Symbol	Parameter	Min.	Max.	Min.	Max.	Min.	Max.	Units
t <sub>PHL</sub> , t <sub>PLH</sub>	Propagation Delay, A <sub>n</sub> to B <sub>n</sub> or B <sub>n</sub> to A <sub>n</sub>	1.5	8.0	1.5	9.0	1.5	9.6	ns
t <sub>PZL</sub> , t <sub>PZH</sub>	Output Enable Time	1.5	9.5	1.5	10.5	1.5	11.0	ns
$t_{PLZ}$ , $t_{PHZ}$	Output Disable Time	1.5	7.5	1.5	8.5	1.5	9.0	ns
t <sub>OSHL</sub> , t <sub>OSLH</sub>	Output to Output Skew <sup>(6)</sup>		1.0					ns

#### Note:

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<sub>OSHL</sub>) or LOW-to-HIGH (t<sub>OSLH</sub>).

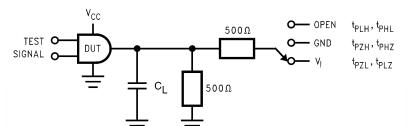
# **Dynamic Switching Characteristics**

				$T_A = 25^{\circ}C$	
Symbol	Parameter	V <sub>CC</sub> (V)	Conditions	Typical	Unit
V <sub>OLP</sub>	Quiet Output Dynamic Peak V <sub>OL</sub>	3.3	$C_L = 50pF, V_{IH} = 3.3V, V_{IL} = 0V$	0.5	V
		2.5	$C_L = 30 pF, V_{IH} = 2.5 V, V_{IL} = 0 V$	0.4	
V <sub>OLV</sub>	Quiet Output Dynamic Valley V <sub>OL</sub>	3.3	$C_L = 50 pF, V_{IH} = 3.3 V, V_{IL} = 0 V$	0.5	V
		2.5	$C_L = 30pF, V_{IH} = 2.5V, V_{IL} = 0V$	0.4	

# Capacitance

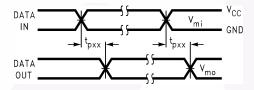
Symbol	Parameter	Conditions	Typical	Units
C <sub>IN</sub>	Input Capacitance	V <sub>CC</sub> = Open, V <sub>I</sub> = 0V or V <sub>CC</sub>	7	pF
C <sub>OUT</sub>	Output Capacitance	$V_{CC} = 3.3V$ , $V_I = 0V$ or $V_{CC}$	8 6	pF
C <sub>PD</sub>	Power Dissipation Capacitance	$V_{CC} = 3.3V$ , $V_{I} = 0V$ or $V_{CC} = 10N$ . 'z	25	pF
	OF REPRESENTATION OF REPRESENT	COMMENDED FOR MEIN COMMENDER OR INFORMATION OF THE FOR INFORMATION OF THE PROPERTY OF THE PROP		

# AC Loading and Waveforms (Generic for LCX Family)

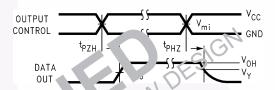


Test	Switch
t <sub>PLH</sub> , t <sub>PHL</sub>	Open
$t_{PZL}, t_{PLZ}$	6V at $V_{CC} = 3.3 \pm 0.3V$ $V_{CC} \times 2$ at $V_{CC} = 2.5 \pm 0.2V$
$t_{PZH},t_{PHZ}$	GND

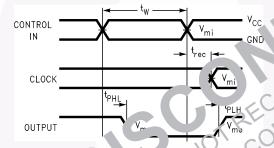
Figure 1. AC Test Circuit (C<sub>L</sub> includes probe and jig capacitance)



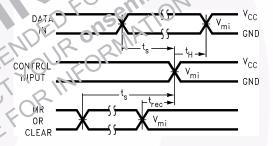
**Waveform for Inverting and Non-Inverting Functions** 



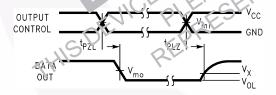
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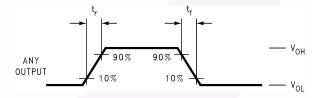
Propagation Falay. Yul > Width and tree Waveforms



Setup Time, Hold Time and Recovery Time for Logic



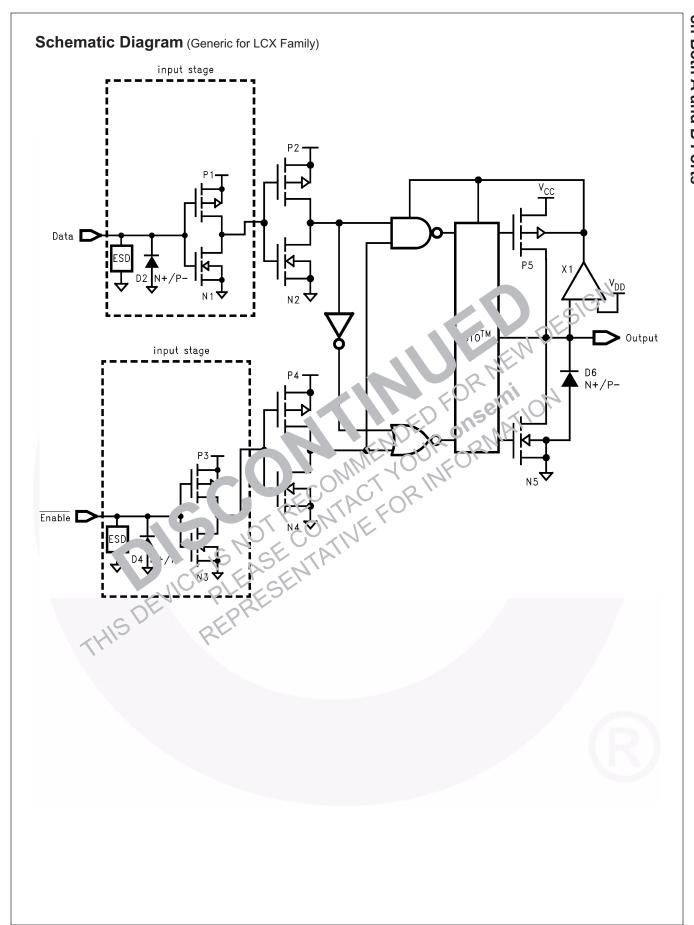




t<sub>rise</sub> and t<sub>fall</sub>

	V <sub>CC</sub>			
Symbol	3.3V ± 0.3V	2.7V	2.5V ± 0.2V	
$V_{mi}$	1.5V	1.5V	V <sub>CC</sub> /2	
$V_{mo}$	1.5V	1.5V	V <sub>CC</sub> /2	
$V_{x}$	V <sub>OL</sub> + 0.3V	V <sub>OL</sub> + 0.3V	V <sub>OL</sub> + 0.15V	
V <sub>y</sub>	V <sub>OH</sub> – 0.3V	V <sub>OH</sub> – 0.3V	V <sub>OH</sub> – 0.15V	

Figure 2. Waveforms (Input Characteristics; f = 1MHz,  $t_r = t_f = 3ns$ )



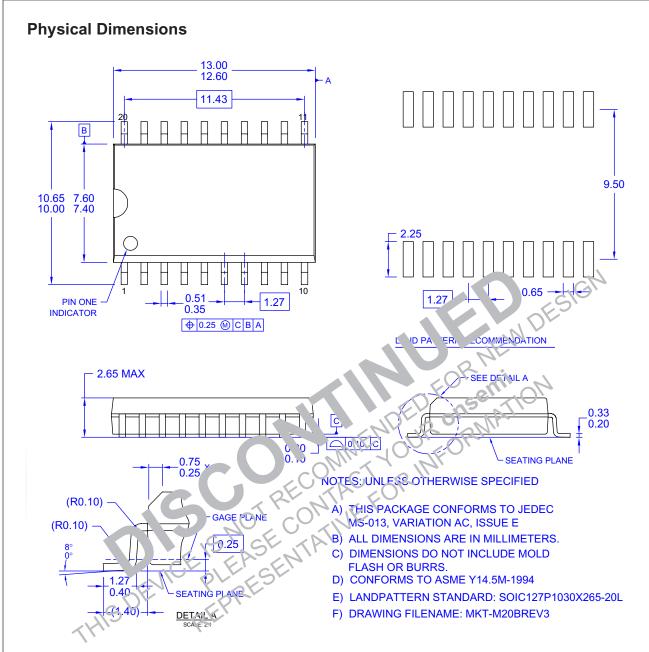


Figure 3. 20-Lead Small Outline Integrated Circuit (SOIC), JEDEC MS-013, 0.300" Wide

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# Physical Dimensions (Continued) 12.6±0.10 0.40 TYP -A-20 20 19 12 11 5.01 TYP 5.3±0.10 9.27 TYP 7.8 -B-9 10 3.9 (2.13 TYP) ○ 0.2 C B A ALL LEAD TIPS 10 PIN #1 IDENT. 1.27 TYP KECOMMENDATION ALL LEAD TIPS DETAIL △ | 0.1 | C 2.1 MAX.--C-·0.15-±0.05 0.15-0.25 1.27 TYP TYP INSIO. GAGE PLANE 0.25 NOTES: 0°-8° TYP A. CONFORMS TO EAJ EUR-7320 REGISTRATION, ESTABLISHED 'N' DECEMBER, 1998. B. DIMENSIONS ARE IN MILLIMETERS. DIM: NS ONS ARE EXCLUSIVE OF BURRS, MOLD FLASH, AND TIE BAR EXTRUSIONS. $0.60\pm0.15$ SEATING PLANE - 1.25 DETAIL A

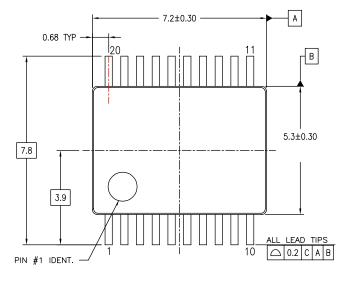
Figure 4. 20-Lead Small Outline Package (SOP), EIAJ TYPE II, 5.3mm Wide

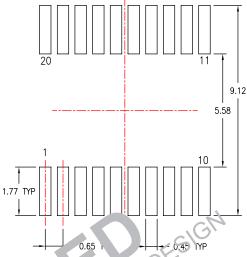
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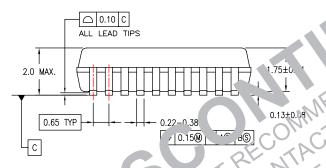
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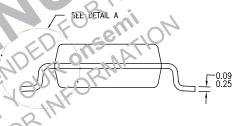
M20DREVC

# Physical Dimensions (Continued)







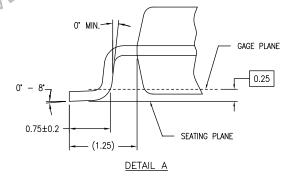


TT N RECOMMENDATIONS

<u>J. TN ON ARE IN MILLIMETERS</u>

#### NOTES:

- A. CONFORMS TO JEDEC REGISTRATION MO-150, VARIATION AE, DATE 1/94.
- B. DIMENSIONS ARE IN MILLIMETERS.
- C. DIMENSIONS ARE EXCLUSIVE OF BURRS, MOLD FLASH, AND TIE BAR EXTRUSIONS.
- D. DIMENSIONS AND TOLERANCES PER ASME Y14.5M 1994.



MSA20REVB

Figure 5. 20-Lead Shrink Small Outline Package (SSOP), JEDEC MO-150, 5.3mm Wide

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# Physical Dimensions (Continued) 5.5±0.1 -A--0.20 اوحا 7. 6,4 4.4±0.1 -B-3,2 0.2 C B A 0.65 ALL LEAD TIPS PIN #1 IDENT. 'ATT' N RECOMMUNDATION SIF DETAI D.1 C max -c-0.09-0.20 0.65 1.100 A BS 10S -12.00° GAGE PLANE NOTES: SEATING PLANE A. CONFORMS TO JEDEC REGISTRATION MJ-153, VARIATION AC, REF NOTE 6, DATE 7/93. -0.6±0.1-R0.09min 1.00 B. DIMENSIONS ARE IN MILLIMETERS. C. DIMENSIONS ARE EXCLUSIVE OF BURRS, MOLDS FLASH, AND TIE BAR EXTRUSIONS. DETAIL A

# MTC20REVD1

D. DIMENSIONS AND TOLERANCES PER ANSI Y14.5M, 1982.

# Figure 6. 20-Lead Thin Shrink Small Outline Package (TSSOP), JEDEC MO-153, 4.4mm Wide

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