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February 1994 Revised October 2003

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

Truth Table Inputs Outputs ΟE T/R L L Bus B Data to Bus A Н Bus A Data to Bus B L Н Χ HIGH-Z State H = HIGH Voltage Level L = LOW Voltage Level X = Immaterial **Logic Diagram**

74LVXC4245

DC Electrical Characteristics (Continued)

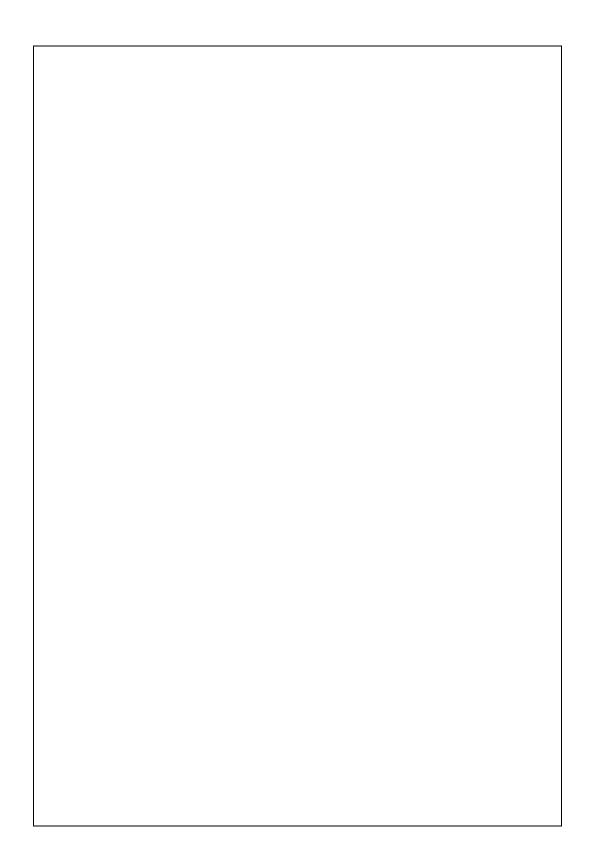
Symbol	Parameter		V _{CCA} V _{CCB}		$\textbf{T}_{\textbf{A}} = +25^{\circ}\textbf{C}$		$T_A = -40^{\circ}C$ to $+85^{\circ}C$	Units	Conditions
Symbol			(V)	(V)	Тур	Gı	aranteed Limits	Ullits	Conditions
I _{OZA}	Maximum 3-STATE		5.5	3.6		±0.5	±5.0	μА	$V_I = V_{IL}, V_{IH}, \overline{OE} = V_{CCA}$
	Output Leakage @ A _n		5.5	5.5		±0.5	±5.0	μА	$V_O = V_{CCA}$, GND
I _{OZB}	Maximum 3-STATE		5.5	3.6		±0.5	±5.0		$V_I = V_{IL}, V_{IH}, \overline{OE} = V_{CCA}$
	Output Leakage @ B	n	5.5	5.5		±0.5	±5.0	μΑ	$V_O = V_{CCB}$, GND
ΔI_{CC}	Maximum	All Inputs	5.5	5.5	1.0	1.35	1.5	mA	$V_I = V_{CC} - 2.1V$
	I _{CC} /Input	B _n	5.5	3.6		0.35	0.5	mA	$V_I = V_{CCB} - 0.6V$
I _{CCA1}	Quiescent V _{CCA}								$A_n = V_{CCA}$ or GND
	Supply Current as B		5.5	Open		8	80	μΑ	$B_n = Open, \overline{OE} = V_{CCA}$
	Port Floats								$T/\overline{R} = V_{CCA}, V_{CCB} =$ Open
I _{CCA2}	Quiescent V _{CCA}								$A_n = V_{CCA}$ or GND
	Supply Current		5.5	3.6		8	80	μΑ	$B_n = V_{CCB}$ or GND
			5.5	5.5		8	80		$\overline{OE} = GND, T/\overline{R} = GND$
I _{CCB}	Quiescent V _{CCB}								$A_n = V_{CCA}$ or GND
	Supply Current		5.5	3.6		5	50	μΑ	$B_n = V_{CCB}$ or GND
			5.5	5.5		8	80		$\overline{OE} = GND, T/\overline{R} = V_{CCA}$
V_{OLPA}	Quiet Output		5.0	3.3		1.5		V	(Note 3) (Note 4)
	Maximum Dynamic		5.0	5.0		1.5		•	
V_{OLPB}	V_{OL}		5.0	3.3		8.0		V	(Note 3) (Note 4)
			5.0	5.0		1.5		•	
V_{OLVA}	Quiet Output Minimur	m	5.0	3.3		-1.2		V	(Note 3) (Note 4)
	Dynamic V _{OL}		5.0	5.0		-1.2		٧	
V _{OLVB}			5.0	3.3		-0.8		V	(Note 3) (Note 4)
			5.0	5.0		-1.2		V	
1.7									

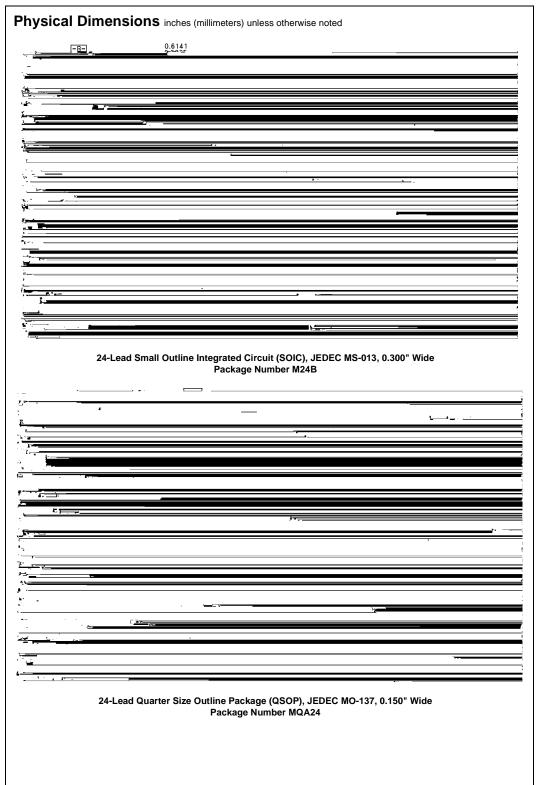
 V_{IHDA}

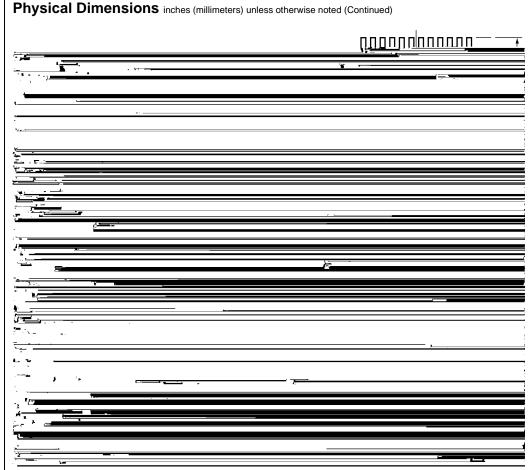
Note 3: Worst case package.

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.







24-Lead Thin Shrink Small Outline Package (TSSOP), JEDEC MO-153, 4.4mm Wide Package Number MTC24

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