



NMOS

MP8

65245OCTAL BUS TRANSCEIVER WITH
3-STATE OUTPUTS

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DESCRIPTION

The 65245 is an octal bus transceiver designed for asynchronous, bi-directional communication between data busses.

The level of the Direction input (DIR) allows data transmission from bus A to bus B or from bus B to bus A. The Enable input (\bar{E}) can be used to provide isolation between the busses.

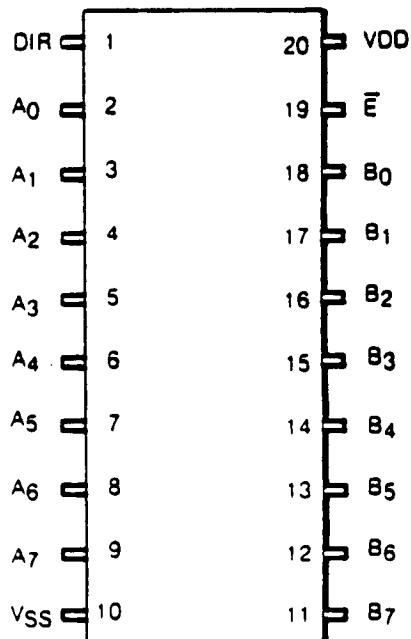
The device is fully TTL and CMOS compatible, and is pin-for-pin compatible with the 74LS245.

TRUTH TABLE

\bar{E}	DIR	OUTPUT
L	L	B data to A bus
L	H	A data to B bus
H	X	Isolation

L = LOW level
H = HIGH level
X = Irrelevant

PIN CONFIGURATION **65245**



MPS
65245**MAXIMUM RATINGS**

RATING	SYMBOL	VALUE	UNIT
SUPPLY VOLTAGE	V _{CC}	-0.3 to +7.0	V _{dc}
INPUT VOLTAGE	V _{IN}	-0.3 to +7.0	V _{dc}
OPERATING TEMPERATURE	T _A	0 to +70	°C
STORAGE TEMPERATURE	T _{STG}	-55 to +150	°C

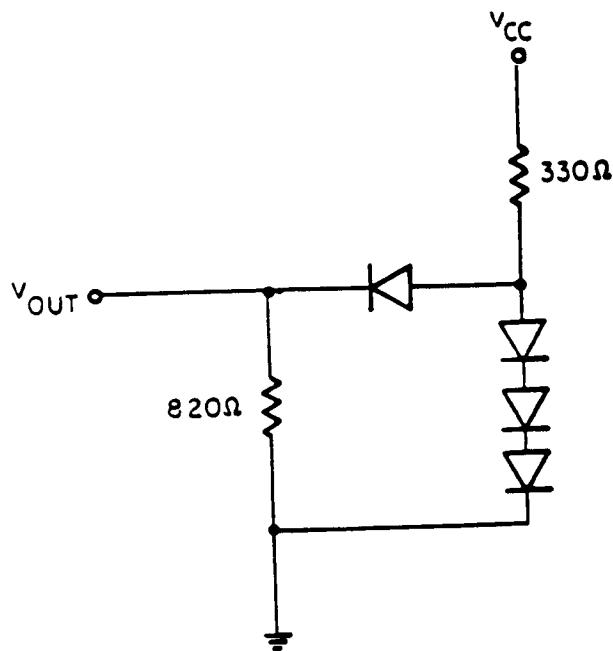
This device contains circuitry to protect the inputs against damage due to high static voltages; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this circuit.

ELECTRICAL CHARACTERISTICS (V_{CC} = 5.0V ± 5%, V_{SS} = 0, T_A = 0° to + 70°C)

CHARACTERISTIC	SYMBOL	MIN.	TYP.	MAX.	UNIT
Input High Voltage	V _{IH}	2.0	—	—	V _{dc}
Input Low Voltage	V _{IL}	—	—	0.8	V _{dc}
Output High Voltage V _{CC} =MIN, V _{IH} =2.0V I _{OH} = -3mA	V _{OH}	2.4	—	—	V _{dc}
I _{OH} = -15mA		2.0	—	—	
Output Low Voltage V _{CC} =MIN, V _{IL} = 0.8V I _{OL} = 12mA	V _{OL}	—	—	0.4	V _{dc}
I _{OL} = 24mA		—	—	0.5	
High-impedance Output Current E = 2.0V, V _{CC} = MAX V _{out} = 2.7V	I _{OZH}	—	—	50	mA
High-impedance Output Current E = 2.0V, V _{CC} = MAX V _{out} = 0.4V	I _{OZL}	—	—	-50	mA
High-Level Input Current V _{CC} =MAX, V _{IH} = 2.7V	I _{IIH}	—	20	100	mA
Low-Level Input Current V _{CC} = MAX, V _{IL} = 0.4V	I _{IIL}	—	20	-100	mA
High-Level Output Current V _{CC} =NOM, V _{out} = 2.4V	I _{OH}	—	—	-15	mA
Low-Level Output Current V _{CC} = NOM V _{out} = 0.4V	I _{OL}	—	—	24	mA
Power Supply Current Outputs High Outputs Low Outputs Hi-Z	I _{CC}	—	47 44 56	64 100 105	mA

AC CHARACTERISTICS (VCC=5.0V, VSS=OV, TA=+25°C)

CHARACTERISTIC	SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNIT
Propagation Delay Data to Output	TPLH TPHL	SEE BELOW	-	-	40	ns
Output Enable Time	TPZH TPZL		-	-	40	ns
Output Disable Time	TPHZ TPLZ		-	-	40	ns



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