

# 74ABT2245

## Octal Bidirectional Transceiver with 25Ω Series Resistors in the Outputs

### General Description

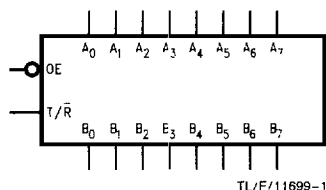
The 'ABT2245 contains eight non-inverting bidirectional buffers with TRI-STATE® outputs and is intended for bus-oriented applications. Current sinking capability is 64 mA on both the A and B ports. The Transmit/Receive (T/R) input determines the direction of data flow through the bidirectional transceiver. Transmit (active HIGH) enables data from A ports to B ports; Receive (active LOW) enables data from B ports to A ports. The Output Enable input, when HIGH, disables both A and B ports by placing them in a High Z condition. Functionally identical to 'ABT245.

The 25Ω series resistors in the outputs reduce ringing and eliminate the need for external resistors.

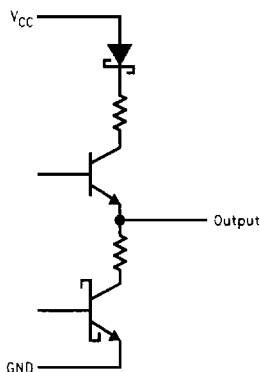
### Features

- Bidirectional non-inverting buffers
- A and B output sink capability of 64 mA, source capability of 32 mA
- Guaranteed latching protection
- High impedance glitch-free bus loading during entire power up and power down cycle
- Non-destructive hot insertion capability
- Disable time is less than enable time to avoid bus contention

### Logic Symbol

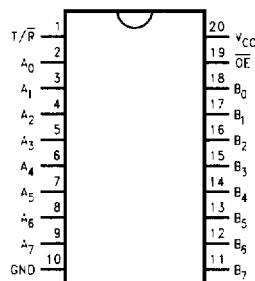


Schematic of Each Output



### Connection Diagram

Pin Assignment for DIP, SSOP and SOIC



### Pin Descriptions

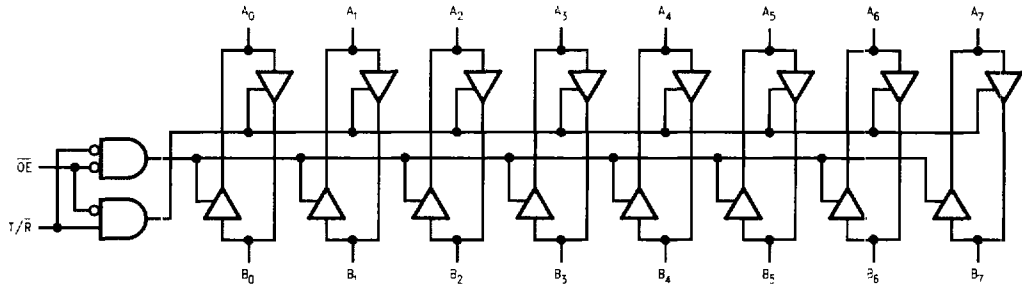
Pin Names	Description
$\overline{OE}$	Output Enable Input (Active LOW)
T/R	Transmit/Receive Input
A <sub>0</sub> -A <sub>7</sub>	Side A Inputs or TRI-STATE Outputs
B <sub>0</sub> -B <sub>7</sub>	Side B Inputs or TRI-STATE Outputs

### Truth Table

Inputs		Output
$\overline{OE}$	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



TL/F/116E9-5