74LCX2245

Low-Voltage Bidirectional Transceiver with 5V Tolerant Inputs and Outputs

General Description

The LCX2245 contains eight non-inverting bidirectional buffers with TRI-STATE® outputs and is intended for bus oriented applications. The device is designed for low voltage (3.3V) V_{CC} applications with capability of interfacing to a 5V signal environment. The T/\overline{R} input determines the direction of data flow through the device. The \overline{OE} input disables both the A and B ports by placing them in a high impedance state. The 25 Ω -series resistor helps reducing output overshoot and undershoot.

The LCX2245 is fabricated with an advanced CMOS technology to achieve high speed operation while maintaining CMOS low power dissipation.

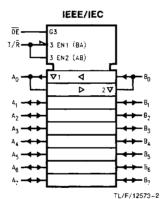
Features

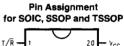
- 5V tolerant inputs and outputs
- 10 µA I_{CCO} max
- Power down high impedance inputs and outputs
- 25Ω-series resistor on outputs
- Supports live insertion/withdrawal
- 2.0V-3.6V V_{CC} supply operation
- ±12 mA output drive
- Implements patented Quiet Series™ noise/EMI reduction circuitry
- Functionally compatible with the 74 series 245
- Latch-up performance exceeds 500 mA
- ESD performance: Human body model > 2000V

Machine model > 200V

Logic Symbols

Connection Diagram







Pin Names	Description
ŌĒ	Output Enable Input
T/Ā	Transmit/Receive Input
A ₀ -A ₇	Side A Inputs or TRI-STATE Outputs
Bn-B7	Side B Inputs or TRI-STATE Outputs