



New Product Announcement

74LVT245BB

74LVT245BB Octal Bus Transceiver

The 74LVT245BB is an octal transceiver designed for asynchronous communication between data buses.

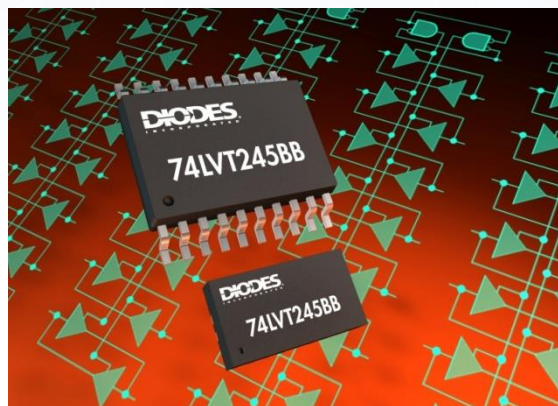
The communication is 8-bit bi-directional with the direction being controlled by the DIR pin.

The output enable pin can be used to disable the outputs, effectively isolating the bus.

Bus-Hold on Data Inputs eliminates the need for external pull-up or pull-down resistors.

The inputs are tolerant to 5.5V even when V_{CC} is 3V allowing the parts to be used in mixed voltage applications.

Devices can be utilized to accept TTL input voltage input levels.



The Diodes Advantage

Hot Insertion Capability

The outputs remain in the high impedance 3-state during power up

High Level of Latch Up Immunity

The 74LVT245BB outputs will not latch-up even when subjected to 500 mA

Direct Replacement

The 74LVT245BB is offered as a direct replacement for the industry standard 74LVT245B providing better value and improved availability

Applications

- General Purpose Logic
- Bus Driving
- Power Down Signal Isolation
- Wide array of products such as:
 - Servers
 - PCs
 - Notebooks
 - Hard Drives
 - TVs, DVDs, DVRs, Set Top Boxes



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74LVT245BB Octal Cross Reference

Diodes Device	Description	Package Type	TI	NXP	Fairchild
74LVT245BBQ20-13	Octal Buffer/Line Driver with 3 State Outputs	QFN-20		74LVT245BBQ	
74LVT245BBT20-13	Octal Buffer/Line Driver with 3 State Outputs	TSSOP-20	SN74LVT245BPWR	74LVT245BPW	74LVT245MTC

Features and Applications

Features

- Supply Voltage Range from 2.7V to 3.6V
- Outputs Sink 64mA or Source 32mA
- CMOS Low Power Consumption
- I_{OFF} Supports Partial Power Down Operation
- Inputs or Outputs Accept Up to 5.5V
- Inputs Include Bus-Hold – No Resistors On Unused Inputs
- Inputs Can Be Driven by 3.3V or 5V Allowing for Mixed Voltage Applications
- Schmitt Trigger Action at All Inputs
- Outputs in 3-State During Power Up – Allows for Hot Insertion
- Outputs Have Less Than 125 µA Leakage When Forced to 5.5V
- ESD Protection Tested per JESD 22
- Exceeds 200V Machine Model (A115)
- Exceeds 2000V Human Body Model (A114)
- Exceeds 1000V Charged Device Model (C101)
- Latch-Up Exceeds 500 mA per JESD 78, Class I
- All devices are:
 - Totally Lead-Free & Fully RoHS Compliant
 - Halogen and Antimony Free. “Green” Device

Applications

- General Purpose Logic
- Bus Driving
- Power Down Signal Isolation
- Wide array of products such as:
- PCs, notebooks, netbooks, ultrabooks
- Networking Computer peripherals, hard drives, CD/DVD ROM
- TV, DVD, DVR, Set-Top Box

Ordering Information

Device	Package	Reel Size	Tape Width	Quantity
74LVT245BBQ20-13	QFN-20	13”	12mm	2,500
74LVT245BBT20-13	TSSOP-20	13”	12mm	2,500