

Product Overview

74LVT244: Low Voltage Octal Buffer/Line Driver with 3-STATE Outputs

For complete documentation, see the data sheet.

The LVT244 and LVTH244 are octal buffers and line drivers designed to be employed as memory address drivers, clock drivers and bus oriented transmitters or receivers which provide improved PC board density. The LVTH244 data inputs include bushold, eliminating the need for external pull-up resistors to hold unused inputs. These octal buffers and line drivers are designed for low-voltage (3.3V) V_{CC} applications, but with the capability to provide a TTL interface to a 5V environment. The LVT244 and LVTH244 are fabricated with an advanced BiCMOS technology to achieve high speed operation similar to 5V ABT while maintaining low power dissipation.

Features

- Input and output interface capability to systems at 5V V_{CC}
- Bushold data inputs eliminate the need for external pull-up resistors to hold unused inputs (74LVTH244), also available without bushold feature (74LVT244)
- Live insertion/extraction permitted
- Power Up/Down high impedance provides glitch-free bus loading
- Outputs source/sink -32 mA/+64 mA
- Functionally compatible with the 74 series 244
- Latch-up performance exceeds 500 mA
- ESD performance: Human-body model > 2000V Machine model > 200V Charged-device model > 1000V

Applications

- This product is general usage and suitable for many different applications.

Part Electrical Specifications

Product	Compliance	Status	Type	Channels	V_{CC} Min (V)	V_{CC} Max (V)	t_{pd} Max (ns)	I_O Max (mA)	Package Type
74LVT244MTC	Pb-free	Active	Buffer	16	2.7V	3.6V	3.8ns	64mA	TSSOP-20
74LVT244MTCX	Pb-free	Active	Buffer	16	2.7V	3.6V	3.8ns	64mA	TSSOP-20
74LVT244WM	Pb-free	Active	Buffer	16	2.7V	3.6V	3.8ns	64mA	SOIC-20W
	Halide free								
74LVT244WMX	Pb-free	Active	Buffer	16	2.7V	3.6V	3.8ns	64mA	SOIC-20W
	Halide free								

For more information please contact your local sales support at www.onsemi.com.

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