

製品概要

MC74LVXT4051: Analog Multiplexer/Demultiplexer (Mux/Demux)

技術情報は、データシートをご参照ください。

The MC74LVXT4051 utilizes silicon-gate CMOS technology to achieve fast propagation delays, low ON resistances, and low leakage currents. This analog multiplexer/demultiplexer controls analog voltages that may vary across the complete power supply range (from VCC to VEE). The LVXT4051 is similar in pinout to the LVX8051, the HC4051A, and the metal-gate MC14051B. The Channel-Select inputs determine which one of the Analog Inputs/Outputs is to be connected, by means of an analog switch, to the Common Output/Input. When the Enable pin is HIGH, all analog switches are turned off. The Channel-Select and Enable inputs are compatible with standard TTL levels. These inputs are over-voltage tolerant (OVT) for level translation from 6.0 V down to 3.0 V. This device has been designed so the ON resistance (RON) is more linear over input voltage than the RON of metal-gate CMOS analog switches and High-Speed CMOS analog switches.

特長

- Select Pins Compatible with TTL Levels
- Fast Switching and Propagation Speeds
- Low Crosstalk Between Switches
- Analog Power Supply Range (VCC - VEE) = -3.0 V to +3.0 V
- Digital (Control) Power Supply Range (VCC - GND) = 2.5 to 6.0 V
- Improved Linearity and Lower ON Resistance than Metal-Gate, HSL, or VHC Counterparts
- Low Noise
- Designed to Operate on a Single Supply with VEE = GND, or Using Split Supplies up to +/- 3.0 V
- Break-Before-Make Circuitry
- Pb-Free Packages are Available*

For more features, see the data sheet

電氣的仕様

製品	Compliance	Status	Channels	V _{CC} Min (V)	V _{CC} Max (V)	t _{pd} Max (ns)	I _O Max (mA)	Package Type
MC74LVXT4051DG	Pb-free	Active	1	2.5	6	23	null	SOIC-16
	Halide free							
MC74LVXT4051DR2G	Pb-free	Active	1	2.5	6	23	null	SOIC-16
	Halide free							
MC74LVXT4051DTG	Pb-free	Active	1	2.5	6	23	null	TSSOP-16
	Halide free							
MC74LVXT4051DTR2G	Pb-free	Active	1	2.5	6	23	null	TSSOP-16
	Halide free							
MC74LVXT4051DTRG	Pb-free	Active	1	2.5	6	23	null	TSSOP-16
	Halide free							

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