

Product Overview

MC74LVX14: Hex Inverter with Schmitt Trigger Input

For complete documentation, see the data sheet.

The MC74LVX14 is an advanced high speed CMOS Schmitt inverter. The inputs tolerate voltages up to 7V, allowing the interface of 5V systems to 3V systems.

The MC74LVX14 is pin and functionally compatible to the MC74LVX04, but the inputs have hysteresis and, with its Schmitt trigger function, can be used as a line receiver which will receive slow input signals.

Features

- High Speed: $t_{PD} = 6.8\text{ns}$ (Typ) at $V_{CC} = 3.3\text{V}$
- Low Power Dissipation: $I_{CC} = 2\mu\text{A}$ (Max) at $T_A = 25\text{C}$
- Power Down Protection Provided on Inputs
- Balanced Propagation Delays
- Low Noise: $V_{OLP} = 0.5\text{V}$ (Max)
- Pin and Function Compatible with Other Standard Logic Families
- Latchup Performance Exceeds 300mA
- ESD Performance: HBM > 2000V; Machine Model > 200V
- Pb-Free Packages are Available*

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
MC74LVX14DR2G	Pb-free	Active	Inverter	6	2	3.6	14.1	4	SOIC-14
	Halide free								
MC74LVX14DTR2G	Pb-free	Active	Inverter	6	2	3.6	14.1	4	TSSOP-14
	Halide free								
NLV74LVX14DTR2G	AEC Qualified	Active	Inverter	6	2	3.6	14.1	4	TSSOP-14
	PPAP Capable								
	Pb-free								
	Halide free								

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

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