

Product Overview

MC74VHCU04: Unbuffered Hex Inverter

For complete documentation, see the data sheet.

The MC74VHCU04 is an advanced high speed CMOS unbuffered inverter fabricated with silicon gate CMOS technology. It achieves high speed operation similar to equivalent Bipolar Schottky TTL while maintaining CMOS low power dissipation. The inputs tolerate voltages up to 7V, allowing the interface of 5V systems to 3V systems.

Features

- High Speed: $t_{PD} = 3.5\text{ns}$ (Typ) at $V_{CC} = 5\text{V}$
- Low Power Dissipation: $I_{CC} = 2\mu\text{A}$ (Max) at $T_A = 25\text{C}$
- High Noise Immunity: $V_{NIH} = V_{NIL} = 10\% V_{CC}$ (Min.)
- Power Down Protection Provided on Inputs
- Balanced Propagation Delays
- Designed for 2V to 5.5V Operating Range
- Low Noise: $V_{OLP} = 0.8\text{V}$ (Max)
- Pin and Function Compatible with Other Standard Logic Families
- Latchup Performance Exceeds 300mA
- ESD Performance: $HBM > 2000\text{V}$; Machine Model $> 200\text{V}$

For more features, see the data sheet

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
MC74VHCU04DR2G	Pb-free Halide free	Active	Inverter	6	2	5.5	null	8	SOIC-14
MC74VHCU04DTR2G	Pb-free Halide free	Active	Inverter	6	2	5.5	null	8	TSSOP-14
NLV74VHCU04DTR2G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Inverter	6	2	5.5	null	8	TSSOP-14

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

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