

## Product Overview

### MC74HC02A: Quad 2-Input NOR Gate

For complete documentation, see the data sheet.

High-Performance Silicon-Gate CMOS

The MC74HC02A is identical in pinout to the LS02. The device inputs are compatible with standard CMOS outputs; with pullup resistors, they are compatible with LSTTL outputs.

### Features

- Output Drive Capability: 10 LSTTL Loads
- Outputs Directly Interface to CMOS, NMOS, and TTL
- Operating Voltage Range: 2.0 to 6.0 V
- Low Input Current: 1.0 mA
- High Noise Immunity Characteristic of CMOS Devices
- In Compliance with the Requirements Defined by JEDEC Standard No. 7A
- Chip Complexity: 40 FETs or 10 Equivalent Gates
- Pb-Free Packages are Available

### Part Electrical Specifications

| Product         | Compliance    | Status | Type | Channels | V <sub>CC</sub> Min (V) | V <sub>CC</sub> Max (V) | t <sub>pd</sub> Max (ns) | I <sub>O</sub> Max (mA) | Package Type |
|-----------------|---------------|--------|------|----------|-------------------------|-------------------------|--------------------------|-------------------------|--------------|
| MC74HC02ADG     | Pb-free       | Active | NOR  | 4        | 2                       | 6                       | 15                       | 4                       | SOIC-14      |
|                 | Halide free   |        |      |          |                         |                         |                          |                         |              |
| MC74HC02ADR2G   | Pb-free       | Active | NOR  | 4        | 2                       | 6                       | 15                       | 4                       | SOIC-14      |
|                 | Halide free   |        |      |          |                         |                         |                          |                         |              |
| MC74HC02ADTR2G  | Pb-free       | Active | NOR  | 4        | 2                       | 6                       | 15                       | 4                       | TSSOP-14     |
|                 | Halide free   |        |      |          |                         |                         |                          |                         |              |
| NLV74HC02ADR2G  | AEC Qualified | Active | NOR  | 4        | 2                       | 6                       | 15                       | 4                       | SOIC-14      |
|                 | PPAP Capable  |        |      |          |                         |                         |                          |                         |              |
|                 | Pb-free       |        |      |          |                         |                         |                          |                         |              |
|                 | Halide free   |        |      |          |                         |                         |                          |                         |              |
| NLV74HC02ADTR2G | AEC Qualified | Active | NOR  | 4        | 2                       | 6                       | 15                       | 4                       | TSSOP-14     |
|                 | PPAP Capable  |        |      |          |                         |                         |                          |                         |              |
|                 | Pb-free       |        |      |          |                         |                         |                          |                         |              |
|                 | Halide free   |        |      |          |                         |                         |                          |                         |              |

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com).

Created on: 6/18/2019