

## Product Overview

### MC74ACT138: 1-of-8 Decoder/Demultiplexer

For complete documentation, see the data sheet.

The MC74AC138/74ACT138 is a high-speed 1-of-8 decoder/demultiplexer. This device is ideally suited for high-speed bipolar memory chip select address decoding. The multiple input enables allow parallel expansion to a 1-of-24 decoder using just three MC74AC138/74ACT138 devices or a 1-of-32 decoder using four MC74AC138/ 74ACT138 devices and one inverter.

### Features

- Demultiplexing Capability
- Multiple Input Enable for Easy Expansion
- Active LOW Mutually Exclusive Outputs
- Outputs Source/Sink 24 mA
- ACT138 Has TTL Compatible Inputs
- These devices are available in Pb-free package(s). Specifications herein apply to both standard and Pb-free devices. Please see our website at [www.onsemi.com](http://www.onsemi.com) for specific Pb-free orderable part numbers, or contact your local ON Semiconductor sales office or representative.

### Part Electrical Specifications

| Product         | Compliance             | Status | 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 |
|-----------------|------------------------|--------|----------|-------------------------|-------------------------|--------------------------|-------------------------|--------------|
| MC74ACT138DG    | Pb-free<br>Halide free | Active | 1        | 4.5                     | 5.5                     | 10.5                     | 24                      | SOIC-16      |
| MC74ACT138DR2G  | Pb-free<br>Halide free | Active | 1        | 4.5                     | 5.5                     | 10.5                     | 24                      | SOIC-16      |
| MC74ACT138DTR2G | Pb-free<br>Halide free | Active | 1        | 4.5                     | 5.5                     | 10.5                     | 24                      | TSSOP-16     |
| NLV74ACT138DR2G | Pb-free<br>Halide free | Active | 1        | 4.5                     | 5.5                     | 10.5                     | 24                      | SOIC-16      |

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

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