

**Not Recommended  
For  
New Designs**

### Features

- SINGLE POWER SUPPLY
- HIGH NOISE IMMUNITY
- INDUSTRIAL AND MILITARY GRADES
- DRIVE CAPACITY 300pF
- SOURCE CURRENT 4mA
- SINK CURRENT 6mA
- PROPAGATION DELAY 50nsec MAX.

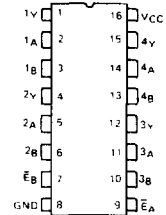
### Description

The HD-6433 is a self-aligned silicon gate CMOS bus separator/driver. This circuit consists of 8 drivers organized as 4 pairs of bus separators which allow a unidirectional input bus and a unidirectional output bus to be interfaced with a bi-directional bus.

Outputs guaranteed valid at VCC 2.0V for Battery Backup Applications.

### Pinout

TOP VIEW



### Truth Table

| CONTROL INPUTS |             | FUNCTION |   |   |
|----------------|-------------|----------|---|---|
| $\bar{E}_A$    | $\bar{E}_B$ | A        | B | Y |
| L              | L           | I        | O | O |
| L              | H           | I        | D | O |
| H              | L           | D        | O | I |
| H              | H           | ISOLATED |   |   |

I = Input O = Output.  
D = Disconnected

### Functional Diagram

