HARRIS

HD-6432

Not Recommended For New Designs See 82C86H/82C87H

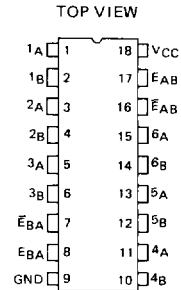## CMOS Hex Bi-Directional Bus Driver

Features

- SINGLE POWER SUPPLY
- HIGH NOISE IMMUNITY
- INDUSTRIAL AND MILITARY GRADES
- DRIVE CAPACITY   300pF
- SOURCE CURRENT   4mA
- SINK CURRENT   6mA
- PROPAGATION DELAY   55nsec MAX.

Description

The HD-6432 is a self-aligned silicon gate CMOS bi-directional bus driver. This circuit consists of 12 drivers organized as 6 bi-directional pairs. Four enable lines select drive direction or Three-State mode.

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

Pinout

TOP VIEW

1_A	1	18	V_{CC}
1_B	2	17	E_{AB}
2_A	3	16	$\overline{E}_{AB}$
2_B	4	15	6_A
3_A	5	14	6_B
3_B	6	13	5_A
$\overline{E}_{BA}$	7	12	5_B
E_{BA}	8	11	4_A
GND	9	10	4_B

Truth Table

CONTROL INPUTS				DATA PORT STATUS	
E_{AB}	$\overline{E}_{AB}$	E_{BA}	$\overline{E}_{BA}$	A	B
L	X	H	L	O	I
X	H	H	L	O	I
H	L	X	H	I	O
H	L	L	X	I	O
L	X	L	X	ISOLATED	
X	H	X	H	ISOLATED	
L	X	X	H	ISOLATED	
X	H	L	X	ISOLATED	
H	L	H	L	NOT ALLOWED	

I = Input   O = Output, X = Don't Care

Functional Diagram