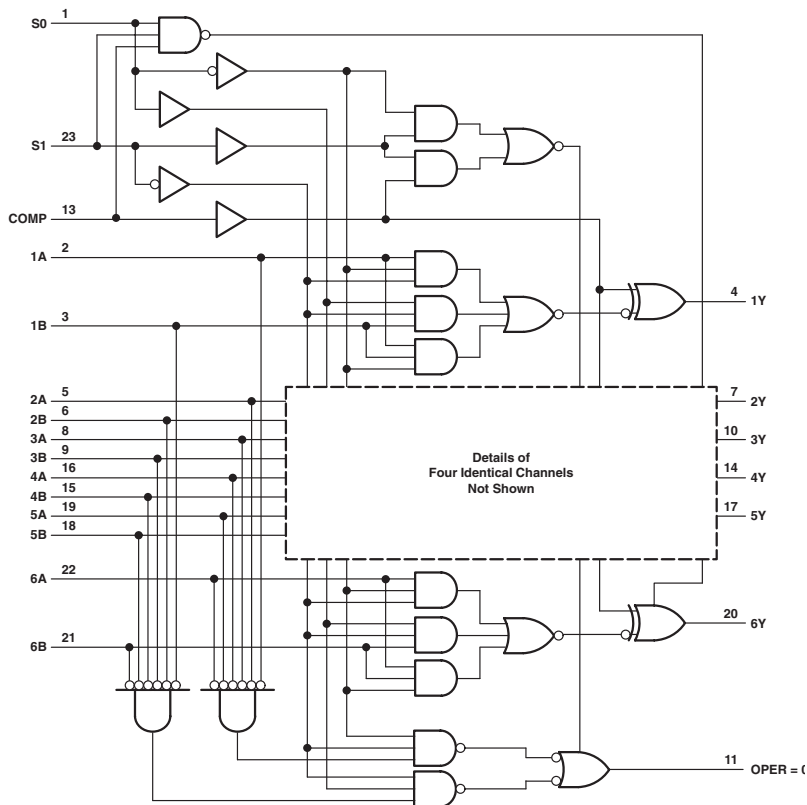


## HEX 2-TO-1 UNIVERSAL MULTIPLEXERS WITH 3-STATE OUTPUTS

- Select True or Complementary Data
- Perform AND/NAND (Masking) of A or B Operand
- Cascadable to Expand Number of Operands
- Detect Zeros on A or B Operands
- 3-State Outputs Interface Directly with System Bus

Logic Diagram



FUNCTION TABLE

INPUTS			OUTPUTS	
COMP	S1	S0	Y	OPER = 0
L	L	L	A	H = all A inputs L
L	L	H	B	H = all B inputs L
L	H	L	A+B	Z
L	H	H	L	L
H	L	L	A	H = all A inputs L
H	L	H	B	H = all B inputs L
H	H	L	A+B	Z
H	H	H	Z	Z

ELECTRICAL CHARACTERISTICS AND RECOMMENDED OPERATING CONDITIONS

PARAMETER		MAX or MIN	ALS	AS	UNIT
I <sub>CCZ</sub>		MAX	36	135	mA
I <sub>CCL</sub>		MAX	33	175	mA
I <sub>OH</sub>	Y	MAX	-2.6	-15	mA
	OPER = 0	MAX	-2.6	-2	mA
I <sub>OL</sub>	Y	MAX	24	48	mA
	OPER = 0	MAX	24	20	mA

TIMING REQUIREMENTS AND SWITCHING CHARACTERISTICS

PARAMETER	INPUT	OUTPUT	MAX or MIN	ALS	AS
t <sub>pd</sub>	A or B (COMP = "H")	Y inverting	MAX	14	12
t <sub>pd</sub>	A or B (COMP = "L")	Y non-inverting	MAX	14	10
t <sub>pd</sub>	S0 or S1	Y	MAX	33	13
t <sub>pd</sub>	COMP	Y		18	13
t <sub>pd</sub>	A or B	OPER = 0		37	14
t <sub>pd</sub>	S0 to S1	OPER = 0		23	18
t <sub>en</sub>	S0 to S1	Y	MAX	35	12
t <sub>dis</sub>				23	11
t <sub>en</sub>	COMP	Y	MAX	24	12
t <sub>dis</sub>				21	9
t <sub>en</sub>				20	12
t <sub>dis</sub>	S0	OPER = 0	MAX	27	9
t <sub>en</sub>				25	12
t <sub>dis</sub>	S1	OPER = 0	MAX	19	9
t <sub>en</sub>				25	13
t <sub>dis</sub>	COMP	OPER = 0	MAX	20	9

UNIT: ns