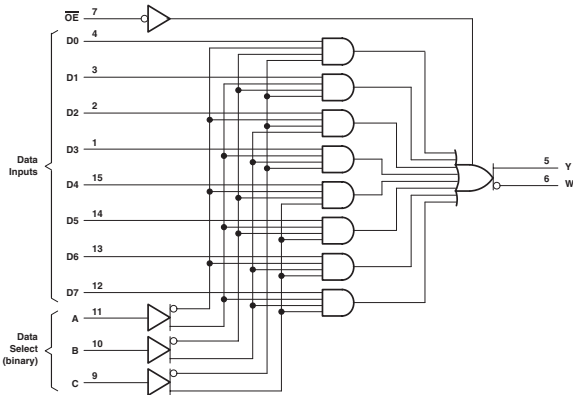


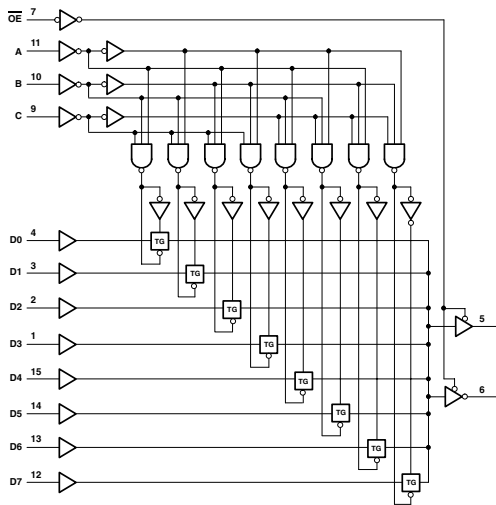
DATA SELECTORS/MULTIPLEXERS WITH 3-STATE OUTPUTS

- 3-State Version of '151
- 3-State Outputs Interface Directly with System Bus
- Perform Parallel-to-Serial Conversion
- Complementary Outputs Provide True and Inverted Data

Logic Diagram (SN74ALS,F)



Logic Diagram (SN74HC)



FUNCTION TABLE (SN74)

INPUTS				OUTPUTS	
SELECT			STROBE	Y	W
C	B	A	OE		
X	X	X	H	Z	Z
L	L	L	L	D0	D0
L	L	H	L	D1	D1
L	H	L	L	D2	D2
L	H	H	L	D3	D3
H	L	L	L	D4	D4
H	L	H	L	D5	D5
H	H	L	L	D6	D6
H	H	H	L	D7	D7

ELECTRICAL CHARACTERISTICS AND RECOMMENDED OPERATING CONDITIONS

PARAMETER	MAX or MIN	TTL	LS	S	ALS	F	SN74 HC	CD74 HC	CD74 HCT	SN74 AC	CD74 AC	UNIT
I <sub>CC</sub>	MAX	62	12	85	14	24	0.08	0.16	0.16	0.16	0.16	mA
I <sub>OH</sub>	MAX	-5.2	-2.6	-6.5	-2.6	-3	-6	-4	-4	-24	-24	mA
I <sub>OL</sub>	MAX	16	8	20	24	24	6	4	4	24	24	mA

SWITCHING CHARACTERISTICS

PARAMETER	INPUT	OUTPUT	MAX or MIN	TTL	LS	S	ALS	F	SN74 HC	CD74 HC	CD74 HCT	SN74 AC	CD74 AC
t <sub>PLH</sub>	A, B, C (CD74: S <sub>0</sub> , S <sub>1</sub> , S <sub>2</sub> )	Y	MAX	45	45	18	18	9.5	51	74	63	18.2	18.2
t <sub>PHL</sub>				45	45	19.5	24	7.5	51	74	63	18.2	18.2
t <sub>PLH</sub>	A, B, C (CD74: S <sub>0</sub> , S <sub>1</sub> , S <sub>2</sub> )	W (CD74: $\bar{Y}$ )	MAX	33	33	15	24	12.5	51	74	63	19.6	19.6
t <sub>PHL</sub>				33	33	13.5	23	9	51	74	63	19.6	19.6
t <sub>PLH</sub>	ANY D (CD74: ANYI)	Y	MAX	28	28	12	10	7	49	53	53	13.5	13.5
t <sub>PHL</sub>				28	28	12	15	5	49	53	53	13.5	13.5
t <sub>PLH</sub>	ANY D (CD74: ANYI)	W (CD74: $\bar{Y}$ )	MAX	15	15	7	15	8	49	53	53	14.9	14.9
t <sub>PHL</sub>				15	15	7	15	8	49	53	53	14.9	14.9
t <sub>PZH</sub>	$\bar{G}$	Y	MAX	27	45	19.5	15	7	36	42	45	13.5	13.5
t <sub>PZL</sub>				40	40	21	15	6.5	36	42	45	13.5	13.5
t <sub>PZH</sub>	$\bar{G}$	W (CD74: $\bar{Y}$ )	MAX	27	27	19.5	15	6	36	42	45	13.5	13.5
t <sub>PZL</sub>				40	40	21	15	4.5	36	42	45	13.5	13.5
t <sub>PHZ</sub>	$\bar{G}$	Y	MAX	8	45	8.5	10	8.5	49	42	45	13.5	13.5
t <sub>PLZ</sub>				23	25	14	10	8	49	42	45	13.5	13.5
t <sub>PHZ</sub>	$\bar{G}$	W (CD74: $\bar{Y}$ )	MAX	8	55	8.5	10	5.5	49	42	45	13.5	13.5
t <sub>PLZ</sub>				23	25	14	10	4.5	49	42	45	13.5	13.5

UNIT: ns