157
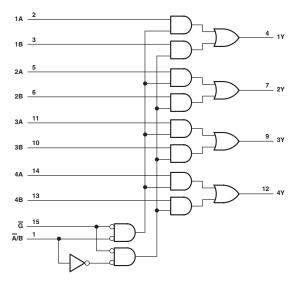
QUADRUPLE 2-LINE TO 1-LINE DATA SELECTORS/MULTIPLEXERS

Logic Diagram (SN74LV/SN74HC)

FUNCTION TABLE (SN74)

INPUTS				OUTPUT
STROBE	SELECT	A	B	
H	X	X	X	L
L	L	L	X	L
L	L	H	X	H
L	H	X	L	L
L	H	X	H	H

ELECTRICAL CHARACTERISTICS AND RECOMMENDED OPERATING CONDITIONS

PARAMETER	MAX or MIN	TTL	LS	S	ALS	AS	F	SN74 HC	CD74 HC	SN74 HCT	UNIT
Icc	MAX	48	16	78	11	28	23	0.08	0.16	0.08	mA
Ioh	MAX	-0.8	-0.4	-1	-0.4	-2	-1	-6	-4	-6	mA
Iol	MAX	16	8	20	8	20	20	6	4	6	mA

PARAMETER	MAX or MIN	CD74 HCT	CD74 AC	CD74 ACT	AHC	AHCT	LV 3V	LV 5V	LVC 3V	UNIT
Icc	MAX	0.16	0.16	0.16	0.04	0.02	-	0.0.2	0.01	mA
Ioh	MAX	-4	-24	-24	-8	-8	-6	-12	-24	mA
Iol	MAX	4	24	24	8	8	6	12	24	mA

SWITCHING CHARACTERISTICS

PARAMETER	INPUT	OUTPUT	MAX or MIN	TTL	LS	S	ALS	AS	F	SN74 HC	CD74 HC	SN74 HCT
tPLH	DATA	Y	MAX	14	14	7.5	14	6	6.5	32	38	35
tPHL				14	14	6.5	12	5.5	7	32	38	35
tPLH	STROBE	Y	MAX	20	20	12.5	20	10.5	11	29	41	33
tPHL				21	21	12	13	7.5	7	29	41	33
tPLH	SELECT	Y	MAX	23	23	15	24	11	11	31	44	40
tPHL				27	27	15	17	10	8	31	44	40

PARAMETER	INPUT	OUTPUT	MAX or MIN	CD74 HCT	CD74 AC	CD74 ACT	AHC	AHCT	LV 3V	LV 5V	LVC 3V
tPLH	DATA	Y	MAX	38	8.5	9.5	9.5	9.8	15	9.5	5.2
tPHL				38	8.5	9.5	9.5	9.8	15	9.5	5.2
tPLH	STROBE	Y	MAX	41	13.5	13.5	12	12	19.5	12	6.5
tPHL				41	13.5	13.5	12	12	19.5	12	6.5
tPLH	SELECT	Y	MAX	44	14.5	14.5	11.5	12	19	11.5	6.8
tPHL				44	14.5	14.5	11.5	12	19	11.5	6.8

UNIT: ns