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### SN54S260, SN74S260 **DUAL 5-INPUT POSITIVE-NOR GATES**

SDLS208 DECEMBER 1983 - REVISED MARCH 1988 SN548260 . . . J OR W PACKAGE . Package Options Include Ceramic Chip SN74S260 . . . D OR N PACKAGE Carriers and Flat Packages in Addition to SG.COM (TOP VIEW) Plastic and Ceramic DIPs U 14 VCC 1A01 Dependable Texas Instruments Quality and . 1B 2 13 1E Reliability 12010 1C 🛛 3 1102E 2A 🛛 4 description 10] 2D 1Y 🛛 5 9]2C 2Y∐6 These devices contain two independent 5-input positive GND 7 8 2B -NOR gates. They perform the Boolean function Y = A + B + C + D + E in positive logic. The SN54S260 is characterized for operation over the SN54S260 ... FK PACKAGE full military temperature range of -55°C to 125°C. The (TOP VIEW) SN74S260 is characterized for operation from 0°C to 70°C. m < y y m logic diagram (each gate) 18 🛛 1D 1C[] 4 NC 5 17 🕻 NC 2A 🛛 6 16[2E NC 7 15 🗍 NC 1708 2D 14[] logic symbol<sup>†</sup> WWW.DZSC.COM (1)NC - No internal connection ≥1 **1**A (2) 18 (5) (3)10 (12)10 (13) 1E (4) 2A (8) 2B (6) (9) 2Y20 (10) 2D (11) 2E <sup>†</sup>This symbol is in accordance with ANSI/IEEE Std. 91-1984 and IEC Publication 617-12. Pin numbers shown are for D, J. N, and W packages.

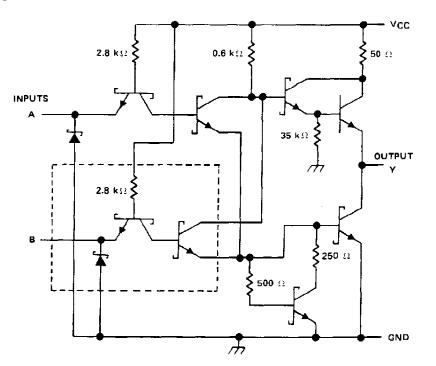
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## SN54S260, SN74S260 DUAL 5-INPUT POSITIVE-NOR GATES

schematic (each gate)



Resistor values shown are nominal.

The portion of the schematic within the dashed-line is repeated for each additional input.

#### absolute maximum ratings over operating free-air temperature range (unless otherwise noted)

Supply voltage, VCC (see Note 1)		<b>7</b> V
Operating free-air temperature range:	SN54′	. – 55°C to 125°C
	SN74'	0°C to 70°C
Storage temperature range		. – 65°C to 150°C

NOTE 1: Voltage values are with respect to network ground terminal.



## SN54S260, SN74S260 **DUAL 5-INPUT POSITIVE NOR GATES**

#### recommended operating conditions

	s	SN54S260			SN74S260		
	MIN	TYP	MAX	MIN	түр	MAX	UNIT
VCC Supply voltage	4.5	5	5.5	4.75	5	5.25	v
VIH High-level input voltage	2			2			V
VIL Low-level input voltage			0.8			0.8	V
IOH High-level output current			- 1			- 1	mΑ
IOL Low-level output current			20			20	mA
TA Operating free-air temperature			125	0		70	°C

#### electrical characteristics over recommended operating free-air temperature range (unless otherwise noted)

PARAMETER		SN54S260	SN74S260	UNIT
	TEST CONDITIONS *	MIN TYP <sup>‡</sup> MAX	MIN TYP <sup>‡</sup> MAX	
	V <sub>CC</sub> = MIN, I <sub>I</sub> = 18 mA	-1.2	- 1.2	V
V <sub>OH</sub>	V <sub>CC</sub> = MIN, V <sub>1L</sub> = 0.8 V, I <sub>OH</sub> = -1 mA	2.5 3.4	2.7 3.4	V
VQL	V <sub>CC</sub> = MIN, V <sub>IH</sub> = 2 V, I <sub>OL</sub> = 20 mA	0.5	0.5	V
	V <sub>CC</sub> = MAX, V <sub>1</sub> = 5.5 V	1	1	mA
I'IH	V <sub>CC</sub> = MAX, V <sub>1H</sub> = 2.7 V	50	50	μA
	V <sub>CC</sub> = MAX, V <sub>1L</sub> = 0.5 V	-2	- 2	mA
IOSS	V <sub>CC</sub> = MAX	-40 -100	-40 -100	mA
Іссн	V <sub>CC</sub> = MAX, V <sub>1</sub> = 0 V	17 29	17 29	mΑ
ICCL	V <sub>CC</sub> = MAX, See Note 2	26 45	26 45	mΑ

t For conditions shown as MIN or MAX, use the appropriate value specified under recommended operating conditions. ‡ All typical values are at  $V_{CC} = 5 V$ ,  $T_A \neq 25^{\circ}$ C. § Not more than one output should be shorted at a time, and the duration of the short-circuit should not exceed one second. NOTE 2: One input at 4.5 V, all others at GND.

## switching characteristics, $V_{CC} = 5 V$ , $T_A = 25^{\circ}C$ (see note 3)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	TEST CONDITIONS		түр	МАХ	UNIT
<sup>t</sup> PLH	Anu	V	R <sub>I</sub> = 280 Ω, C <sub>I</sub> = 15 pF		4	5.5	ns
tPHL	Any	Ť	$R_L = 280 \Omega$ , $C_L = 15 pF$		4	6	пs

NOTE 3: See General Information Section for load circuits and voltage waveforms.



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