捷多邦,专业PCB打样工厂,24小时加急出货 SN74F260 DUAL 5-INPUT POSITIVE-NOR GATE

SDFS012A - D3214, JANUARY 1989 - REVISED OCTOBER 1993

Package Options Include Plastic
 Small-Outline Packages and Standard
 Plastic 300-mil DIPs

description

The SN74F260 contains two independent 5-input positive-NOR gates. It performs the Boolean functions Y = A + B + C + D + E in positive logic.

The SN74F260 is characterized for operation from 0°C to 70°C.

D OR N PACKAGE (TOP VIEW)

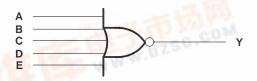


logic symbol†

≥ 1 2 **1B** 3 1C 12 1D 13 1E 4 2A 8 2B 9 2C 10 2D 11 2E

[†] This symbol is in accordance with ANSI/IEEE Std 91-1984 and IEC Publication 617-12.

logic diagram, each gate (positive logic)



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

NOTE 1: The input voltage ratings may be exceeded provided the input current ratings are observed.

[‡] Stresses beyond those listed under "absolute maximum ratings" may cause permanent damage to the device. These are stress ratings only and functional operation of the device at these or any other conditions beyond those indicated under "recommended operating conditions" is not implied. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.

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recommended operating conditions

		MIN	NOM	MAX	UNIT
Vcc	Supply voltage	4.5	5	5.5	V
VIH	High-level input voltage	2			V
VIL	Low-level input voltage			0.8	V
lik	Input clamp current			-18	mA
ІОН	High-level output current			– 1	mA
loL	Low-level output current			20	mA
TA	Operating free-air temperature	0		70	°C

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

PARAMETER	TEST CONDITIONS			TYP†	MAX	UNIT	
VIК	$V_{CC} = 4.5 \text{ V},$	$I_{I} = -18 \text{ mA}$			-1.2	V	
V	$V_{CC} = 4.5 \text{ V},$	$I_{OH} = -1 \text{ mA}$	2.5	3.4		V	
VOH	$V_{CC} = 4.75 V$,	$I_{OH} = -1 \text{ mA}$	2.7			V	
V _{OL}	$V_{CC} = 4.5 \text{ V},$	$I_{OL} = 20 \text{ mA}$		0.3	0.5	V	
Ι _Ι	$V_{CC} = 5.5 \text{ V},$	V _I = 7 V			0.1	mA	
IIH	V _{CC} = 5.5 V,	V _I = 2.7 V			20	μΑ	
I _{IL}	V _{CC} = 5.5 V,	V _I = 0.5 V			- 0.6	mA	
los‡	V _{CC} = 5.5 V,	VO = 0	-60		-150	mA	
ICCH	$V_{CC} = 5.5 \text{ V},$	V _I = 0		4.6	6.5	mA	
ICCL	V _{CC} = 5.5 V,	V _I = 4.5 V		7.3	9.5	mA	

[†] All typical values are at $V_{CC} = 5 \text{ V}$, $T_A = 25^{\circ}\text{C}$.

switching characteristics (see Note 2)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	$V_{CC} = 5 \text{ V},$ $C_L = 50 \text{ pF},$ $R_L = 500 \Omega,$ $T_A = 25^{\circ}\text{C}$		$V_{CC} = 4.5 \text{ V to } 5.5$ $C_L = 50 \text{ pF,}$ $R_L = 500 \Omega,$ $T_A = \text{MIN to MAX} \$$		UNIT	
			MIN	TYP	MAX	MIN	MAX	
t _{PLH}	A, B, C, D, E		1.7	4	5.5	1.2	6.5	ns
^t PHL	A, B, C, D, L	ı	1	2.5	4	1	4.5	115

§ For conditions shown as MIN or MAX, use the appropriate value specified under recommended operating conditions. NOTE 2: Load circuits and waveforms are shown in Section 1.



[‡] Not more than one output should be shorted at a time, and the duration of the short circuit should not exceed one second.

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