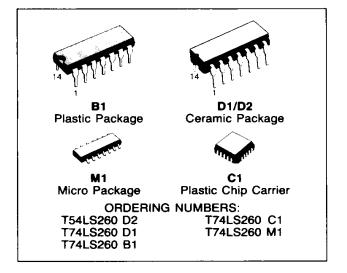




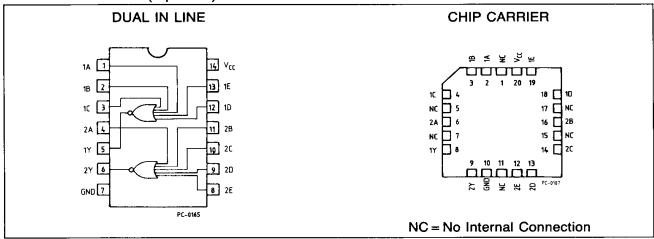
DUAL 5-INPUT NOR GATE

DESCRIPTION

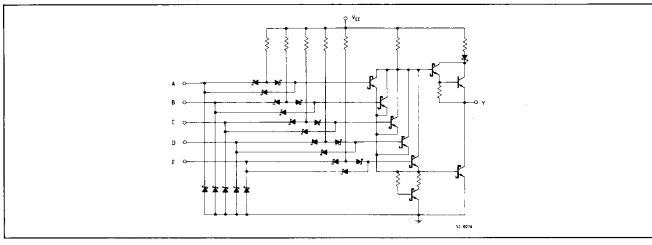
The T54LS260/T74LS260 is a high speed DUAL 5-INPUT NOR GATE fabricated in LOW POWER SCHOTTKY technology.



PIN CONNECTION (top view)



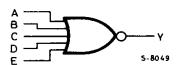
SCHEMATIC



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LOGIC DIAGRAM AND TRUTH TABLE



Α	В	С	D	E	Υ
L	L	L	L	L	I
Х	Х	Х	Х	Н	L
X X	X	Х	Н	Х	L
Х	Х	Н	Х	Х	L
Х	Н	X X	Х	Х	L
Н	X	Х	Х	X	L

ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Value	Unit	
Vcc	Supply Voltage	- 0.5 to 7	V	
VI	Input Voltage, Applied to Input	- 0.5 to 15	V	
V _O	Output Voltage, Applied to Output	-0.5 to 10	V	
lı	Input Current, Into Inputs	-30 to 5	mA	
lo	Output Current, Into Outputs	50	mA	

Stresses in excess of those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. This is a stress rating only and functional operation of the device at these or any other conditions in excess of those indicated in the operational sections of this specification is not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

GUARANTEED OPERATING RANGES

Part Numbers		Tamaanatura			
Part Numbers	Min	Тур	Max	Temperature	
T54LS260D2	4.5 V	5.0 V	5.5 V	-55°C to +125°C	
T74LS260XX	4.75 V	5.0 V	5.25 V	0°C to +70°C	

XX = package type.

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DC CHARACTERISTICS OVER OPERATING TEMPERATURE RANGE

	Parameter		Values			Test Conditions		Limites
Symbol			Min.	Тур.	Max.	(Note 1)		Units
V _{IH}	Input HIGH Voltage	,	2.0			Guaranteed input HIGH Voltage		V
VIL	Input LOW Voltage 54				0.7	Guaranteed input LOW Voltage		V
		74			0.8			"
V _{CD}	Input Clamp Diode Vo	Itage		- 0.65	- 1.5	$V_{CC} = MIN, I_{IN} = -18mA$		V
V _{OH}	Output HIGH Voltage	54	2.5	3.4		$V_{CC} = MIN, I_{OH} = -400 \mu A, V_{IN} = V_{IL}$		V
		74	2.7	3.4		VCC = MIII4,IO	H = - 400μΑ, VIN - VIL	
V _{OL}	Output LOW Voltage	54,74		0.25	0.4	I _{OL} = 4.0mA	$V_{CC} = MIN, V_{IN} = 2.0V$	V
		74		0.35	0.5	I _{OL} = 8.0mA		
I _{IH}	Input HIGH Current			1.0	20 0.1	$V_{CC} = MAX, V_{IN} = 2.7V$ $V_{CC} = MAX, V_{IN} = 7.0V$		μA mA
l _{IL}	Input LOW Current				- 0.36	V _{CC} = MAX,V _{IN} = 0.4V		mA
los	Output Short Circuit Current (Note 2)		- 20		- 100	V _{CC} = MAX,V _{OUT} = 0V		mA
Іссн	Supply Current HIGH				4.0	V _{CC} = MAX, V _{IN} = 0V		mA
ICCL	Supply Current LOW			5.5	V _{CC} = MAX,Inputs Open		mA	

AC CHARACTERISTICS: TA = 25°C

Symbol	Parameter	Limits			Test Conditions	Units
		Min.	Тур.	Max.	Test Conditions	Offics
t _{PLH}	Turn Off Delay, Input to Output		5.0	15	V _{CC} = 5.0V	ns
t _{PHL}	Turn On Delay, Input to Output		6.0	15	C _L = 15pF	ns

Notes:

- 1) For conditions shown as MIN or MAX, use the appropriate value specified under guaranteed operating ranges.
- 2) Not more than one output should be shorted at a time.
- 3) Typical values are at $V_{CC} = 5.0V$, $T_A = 25$ °C.