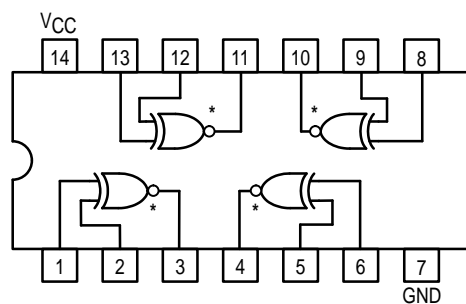




# QUAD 2-INPUT EXCLUSIVE NOR GATE



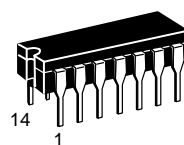
\* OPEN COLLECTOR OUTPUTS

TRUTH TABLE

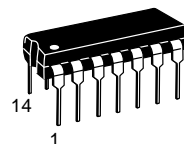
IN		OUT
A	B	Z
L	L	H
L	H	L
H	L	L
H	H	H

SN54/74LS266

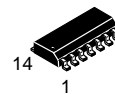
QUAD 2-INPUT  
EXCLUSIVE NOR GATE  
LOW POWER SCHOTTKY



J SUFFIX  
CERAMIC  
CASE 632-08



N SUFFIX  
PLASTIC  
CASE 646-06



D SUFFIX  
SOIC  
CASE 751A-02

## ORDERING INFORMATION

SN54LSXXXJ	Ceramic
SN74LSXXXN	Plastic
SN74LSXXXD	SOIC

## GUARANTEED OPERATING RANGES

Symbol	Parameter		Min	Typ	Max	Unit
V <sub>CC</sub>	Supply Voltage	54 74	4.5 4.75	5.0 5.0	5.5 5.25	V
T <sub>A</sub>	Operating Ambient Temperature Range	54 74	-55 0	25 25	125 70	°C
V <sub>OH</sub>	Output Voltage — High	54, 74			5.5	V
I <sub>OL</sub>	Output Current — Low	54 74			4.0 8.0	mA

# SN54/74LS266

## DC CHARACTERISTICS OVER OPERATING TEMPERATURE RANGE (unless otherwise specified)

Symbol	Parameter		Limits			Unit	Test Conditions	
			Min	Typ	Max			
V <sub>IH</sub>	Input HIGH Voltage		2.0			V	Guaranteed Input HIGH Voltage for All Inputs	
V <sub>IL</sub>	Input LOW Voltage	54			0.7	V	Guaranteed Input LOW Voltage for All Inputs	
		74			0.8			
V <sub>IK</sub>	Input Clamp Diode Voltage			−0.65	−1.5	V	V <sub>CC</sub> = MIN, I <sub>IN</sub> = −18 mA	
V <sub>OH</sub>	Output HIGH Voltage	54, 74			100	μA	V <sub>CC</sub> = MIN, V <sub>OH</sub> = MAX	
V <sub>OL</sub>	Output LOW Voltage	54, 74		0.25	0.4	V	I <sub>OL</sub> = 4.0 mA	V <sub>CC</sub> = V <sub>CC</sub> MIN, V <sub>IN</sub> = V <sub>IL</sub> or V <sub>IH</sub> per Truth Table
		74		0.35	0.5	V	I <sub>OL</sub> = 8.0 mA	
I <sub>IH</sub>	Input HIGH Current				40	μA	V <sub>CC</sub> = MAX, V <sub>IN</sub> = 2.7 V	
					0.2	mA	V <sub>CC</sub> = MAX, V <sub>IN</sub> = 7.0 V	
I <sub>IL</sub>	Input LOW Current				−0.8	mA	V <sub>CC</sub> = MAX, V <sub>IN</sub> = 0.4 V	
I <sub>CC</sub>	Power Supply Current				13	mA	V <sub>CC</sub> = MAX	

## AC CHARACTERISTICS ( $T_A = 25^\circ\text{C}$ )

Symbol	Parameter		Limits			Unit	Test Conditions	
			Min	Typ	Max			
$t_{PLH}$ $t_{PHL}$	Propagation Delay, Other Input LOW			18 18	30 30	ns	$V_{CC} = 5.0 \text{ V}$ $C_L = 15 \text{ pF}$ , $R_L = 2.0 \text{ k}\Omega$	
$t_{PLH}$ $t_{PHL}$	Propagation Delay, Other Input HIGH			18 18	30 30	ns		