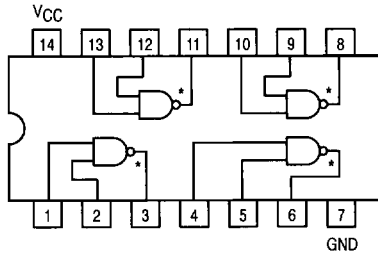




# QUAD 2-INPUT NAND BUFFER

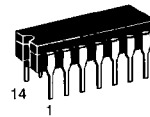
- ESD > 3500 Volts



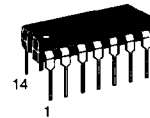
\*OPEN COLLECTOR OUTPUTS

## SN54/74LS26

**QUAD 2-INPUT NAND BUFFER  
LOW POWER SCHOTTKY**



**J SUFFIX  
CERAMIC  
CASE 632-08**



**N SUFFIX  
PLASTIC  
CASE 646-06**



**D SUFFIX  
SOIC  
CASE 751A-02**

### ORDERING INFORMATION

SN54LSXXJ Ceramic  
SN74LSXXN Plastic  
SN74LSXXD SOIC

### GUARANTEED OPERATING RANGES

Symbol	Parameter		Min	Typ	Max	Unit
V <sub>CC</sub>	Supply Voltage	54	4.5	5.0	5.5	V
		74	4.75	5.0	5.25	
T <sub>A</sub>	Operating Ambient Temperature Range	54	-55	25	125	°C
		74	0	25	70	
V <sub>OH</sub>	Output Voltage — High	54, 74			15	V
I <sub>OL</sub>	Output Current — Low	54			4.0	mA
		74			8.0	

# SN54/74LS26

## 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		
I <sub>OH</sub>	Output HIGH Current	54, 74		1000	μA	V <sub>CC</sub> = MIN, V <sub>OH</sub> = MAX		
		54, 74		50	μA	V <sub>CC</sub> = MIN, V <sub>OH</sub> = 12 V		
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			20	μA	V <sub>CC</sub> = MAX, V <sub>IN</sub> = 2.7 V		
				0.1	mA	V <sub>CC</sub> = MAX, V <sub>IN</sub> = 7.0 V		
I <sub>IL</sub>	Input LOW Current			-0.4	mA	V <sub>CC</sub> = MAX, V <sub>IN</sub> = 0.4 V		
I <sub>CC</sub>	Power Supply Current Total, Output HIGH			1.6	mA	V <sub>CC</sub> = MAX		
	Total, Output LOW			4.4				

## AC CHARACTERISTICS (T<sub>A</sub> = 25°C)

Symbol	Parameter		Limits			Unit	Test Conditions	
			Min	Typ	Max			
t <sub>PLH</sub>	Turn-Off Delay, Input to Output			17	32	ns	V <sub>CC</sub> = 5.0 V C <sub>L</sub> = 15 pF, R <sub>L</sub> = 2.0 kΩ	
t <sub>PHL</sub>	Turn-On Delay, Input to Output			15	28			