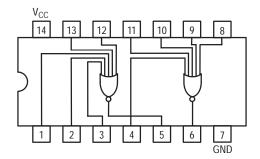
# **Dual 5-Input NOR Gate**





Symbo	Parameter	Min	Тур	Max	Unit
V <sub>CC</sub>	Supply Voltage	4.75	5.0	5.25	V
T <sub>A</sub>	Operating Ambient Temperature Range	0	25	70	°C
I <sub>OH</sub>	Output Current – High			-0.4	mA
I <sub>OL</sub>	Output Current – Low			8.0	mA



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LOW POWER SCHOTTKY



PLASTIC N SUFFIX CASE 646



### **ORDERING INFORMATION**

Device	Package	Shipping	
SN74LS260N	14 Pin DIP	2000 Units/Box	
SN74LS260D	14 Pin	2500/Tape & Reel	

			Limits				
Symbol	Parameter	Min	Тур	Max	Unit	Tes	t Conditions
V <sub>IH</sub>	Input HIGH Voltage	2.0			V	Guaranteed Input HIGH Voltage for All Inputs	
V <sub>IL</sub>	Input LOW Voltage			0.8	V	Guaranteed Input LOW Voltage for All Inputs	
V <sub>IK</sub>	Input Clamp Diode Voltage		-0.65	-1.5	V	$V_{CC} = MIN, I_{IN} = -18 \text{ mA}$	
V <sub>OH</sub>	Output HIGH Voltage	2.7	3.5		V	$V_{CC} = MIN, I_{OH} = MAX, V_{IN} = V_{IH}$ or $V_{IL}$ per Truth Table	
V <sub>OL</sub>	Output LOW Voltage		0.25	0.4	V	l <sub>OL</sub> = 4.0 mA	$V_{CC} = V_{CC} MIN,$ $V_{IN} = V_{IL} \text{ or } V_{IH}$ per Truth Table
			0.35	0.5	V	l <sub>OL</sub> = 8.0 mA	
				20	μΑ	$V_{CC} = MAX, V_{IN} = 2.7 V$ $V_{CC} = MAX, V_{IN} = 7.0 V$	
I <sub>IH</sub>	Input HIGH Current			0.1	mA		
IIL	Input LOW Current			-0.4	mA	$V_{CC} = MAX, V_{IN} = 0.4 V$	
I <sub>OS</sub>	Short Circuit Current (Note 1)	-20		-100	mA	V <sub>CC</sub> = MAX	
I <sub>CC</sub>	Power Supply Current Total, Output HIGH			4.0	mA	V <sub>CC</sub> = MAX	
	Total, Output LOW			5.5			

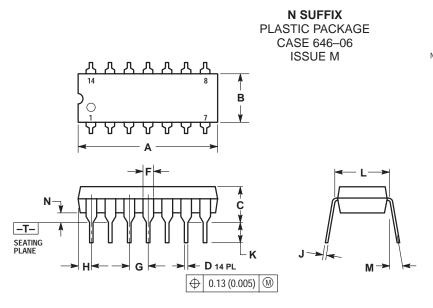
## DC CHARACTERISTICS OVER OPERATING TEMPERATURE RANGE (unless otherwise specified)

Note 1: Not more than one output should be shorted at a time, nor for more than 1 second.

# AC CHARACTERISTICS (T<sub>A</sub> = $25^{\circ}$ C)

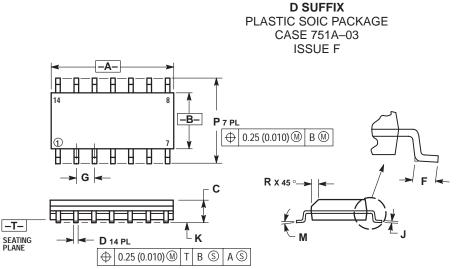
		Limits				
Symbol	Parameter	Min	Тур	Мах	Unit	Test Conditions
t <sub>PLH</sub>	Turn-Off Delay, Input to Output		5.0	15	ns	V <sub>CC</sub> = 5.0 V
t <sub>PHL</sub>	Turn-On Delay, Input to Output		6.0	15	ns	C <sub>L</sub> = 15 pF

## PACKAGE DIMENSIONS



- NOTES:
  DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
  CONTROLLING DIMENSION: INCH.
  DIMENSION L TO CENTER OF LEADS WHEN FORMED PARALLEL.
  DIMENSION B DOES NOT INCLUDE MOLD FLASH.
  ROUNDED CORNERS OPTIONAL.

	INC	HES	MILLIMETERS		
DIM	MIN	MAX	MIN	MAX	
Α	0.715	0.770	18.16	18.80	
В	0.240	0.260	6.10	6.60	
С	0.145	0.185	3.69	4.69	
D	0.015	0.021	0.38	0.53	
F	0.040	0.070	1.02	1.78	
G	0.100 BSC		2.54 BSC		
Н	0.052	0.095	1.32	2.41	
J	0.008	0.015	0.20	0.38	
К	0.115	0.135	2.92	3.43	
L	0.290	0.310	7.37	7.87	
М		10°		10°	
Ν	0.015	0.039	0.38	1.01	



#### NOTES:

- 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982. 2. CONTROLLING DIMENSION: MILLIMETER.
- DIMENSIONS A AND B DO NOT INCLUDE MOLD PROTRUSION.
- 4. MAXIMUM MOLD PROTRUSION 0.15 (0.006) PER SIDE.
- PER SIDE. 5. DIMENSION D DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.127 (0.005) TOTAL IN EXCESS OF THE D DIMENSION AT MAXIMUM MATERIAL CONDITION.

		MILLIN	IETERS	INCHES		
D	MIC	MIN MAX		MIN	MAX	
	Α	8.55	8.75	0.337	0.344	
	В	3.80	4.00	0.150	0.157	
	С	1.35	1.75	0.054	0.068	
	D	0.35	0.49	0.014	0.019	
	F	0.40	1.25	0.016	0.049	
	G	1.27 BSC		0.050 BSC		
	J	0.19	0.25	0.008	0.009	
	К	0.10	0.25	0.004	0.009	
	М	0 °	7°	0 °	7°	
	Р	5.80	6.20	0.228	0.244	
	R	0.25	0.50	0.010	0.019	

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