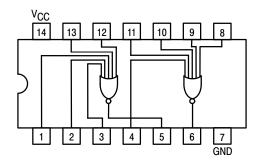
SN74LS260

Dual 5-Input NOR Gate





ON Semiconductor™

http://onsemi.com

LOW POWER SCHOTTKY

GUARANTEED OPERATING RANGES

Symbol	Parameter	Min	Тур	Max	Unit
VCC	Supply Voltage	4.75	5.0	5.25	V
T _A	Operating Ambient Temperature Range	0	25	70	°C
ІОН	Output Current – High			-0.4	mA
lOL	Output Current – Low			8.0	mA



PLASTIC N SUFFIX CASE 646



SOIC D SUFFIX CASE 751A

ORDERING INFORMATION

Device	Package	Shipping	
SN74LS260N	14 Pin DIP	2000 Units/Box	
SN74LS260D	SOIC-14	55 Units/Rail	
SN74LS260DR2	SOIC-14	2500/Tape & Reel	

SN74LS260

DC CHARACTERISTICS OVER OPERATING TEMPERATURE RANGE (unless otherwise specified)

		Limits						
Symbol	Parameter	Min	Тур	Max	Unit	Tes	t Conditions	
VIH	Input HIGH Voltage	2.0			V	Guaranteed Input HIGH Voltage for All Inputs		
V _{IL}	Input LOW Voltage			0.8	V	Guaranteed Input LOW Voltage for All Inputs		
VIK	Input Clamp Diode Voltage		-0.65	-1.5	V	V _{CC} = MIN, I _{IN} =	V _{CC} = MIN, I _{IN} = -18 mA	
Vон	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	Output I OW/Value as		0.25	0.4	V		$V_{CC} = V_{CC} MIN,$	
VOL	Output LOW Voltage		0.35	0.5	V	I _{OL} = 8.0 mA	V _{IN} = V _{IL} or V _{IH} per Truth Table	
I.e.	lanut IIICI I Current			20	μΑ	V _{CC} = MAX, V _{IN} = 2.7 V		
lН	Input HIGH Current			0.1	mA	V _{CC} = MAX, V _{IN} = 7.0 V		
IIL	Input LOW Current			-0.4	mA	V _{CC} = MAX, V _{IN} = 0.4 V		
los	Short Circuit Current (Note 1)	-20		-100	mA	V _{CC} = MAX		
Icc	Power Supply Current Total, Output HIGH			4.0	mA	mA V _{CC} = MAX		
	Total, Output LOW			5.5				

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

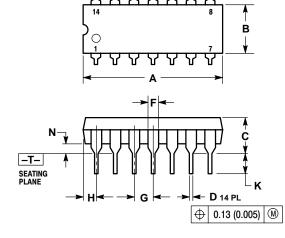
AC CHARACTERISTICS $(T_A = 25^{\circ}C)$

		Limits					
Symbol	Parameter	Min	Тур	Max	Unit	Test Conditions	
^t PLH	Turn-Off Delay, Input to Output		5.0	15	ns	V _{CC} = 5.0 V	
tPHL	Turn-On Delay, Input to Output		6.0	15	ns	C _L = 15 pF	

SN74LS260

PACKAGE DIMENSIONS

N SUFFIX PLASTIC PACKAGE CASE 646-06 ISSUE M





- NOTES:

 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.

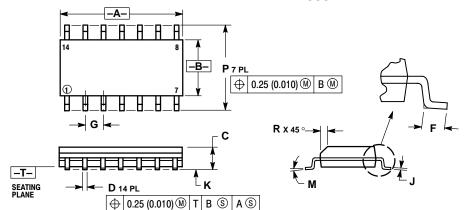
 2. CONTROLLING DIMENSION: INCH.

 3. DIMENSION L TO CENTER OF LEADS WHEN FORMED PARALLEL.
- 4. DIMENSION B DOES NOT INCLUDE MOLD FLASH.
 5. 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		
K	0.115	0.135	2.92	3.43		
L	0.290	0.310	7.37	7.87		
M		10°		10°		
N	0.015	0.030	0.38	1.01		

D SUFFIX

PLASTIC SOIC PACKAGE CASE 751A-03 ISSUE F



NOTES:

- 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982. 2. CONTROLLING DIMENSION: MILLIMETER.
- DIMENSIONS A AND B DO NOT INCLUDE MOLD PROTRUSION.
- MOLD PROTRUSION.

 4. MAXIMUM MOLD PROTRUSION 0.15 (0.006) 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		
DIM	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	
K	0.10	0.25	0.004	0.009	
M	0 °	7°	0 °	7°	
P	5.80	6.20	0.228	0.244	
R	0.25	0.50	0.010	0.019	

SN741 S260

ON Semiconductor and are trademarks of Semiconductor Components Industries, LLC (SCILLC). SCILLC reserves the right to make changes without further notice to any products herein. SCILLC makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does SCILLC assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. "Typical" parameters which may be provided in SCILLC data sheets and/or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including "Typicals" must be validated for each customer application by customer's technical experts. SCILLC does not convey any license under its patent rights nor the rights of others. SCILLC products are not designed, intended, or authorized for use as components in systems intended for surgical implant into the body, or other applications intended to support or sustain life, or for any other application in which the failure of the SCILLC product could create a situation where personal injury or death may occur. Should Buyer purchase or use SCILLC products for any such unintended or unauthorized application, Buyer shall indemnify and hold SCILLC and its officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, costs, damages, and expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized use, even if such claim alleges that SCILLC was negligent regarding the design or manufacture of the part. SCILLC is an Equal Opportunity/Affirmative Action Employer.

PUBLICATION ORDERING INFORMATION

Literature Fulfillment:

Literature Distribution Center for ON Semiconductor P.O. Box 5163, Denver, Colorado 80217 USA

Phone: 303–675–2175 or 800–344–3860 Toll Free USA/Canada Fax: 303–675–2176 or 800–344–3867 Toll Free USA/Canada

Email: ONlit@hibbertco.com

N. American Technical Support: 800–282–9855 Toll Free USA/Canada

JAPAN: ON Semiconductor, Japan Customer Focus Center 4–32–1 Nishi–Gotanda, Shinagawa–ku, Tokyo, Japan 141–0031

Phone: 81–3–5740–2700 Email: r14525@onsemi.com

ON Semiconductor Website: http://onsemi.com

For additional information, please contact your local

Sales Representative.