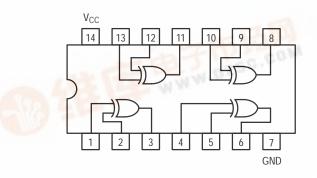
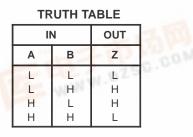
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SN74LS86

Quad 2-Input Exclusive OR Gate





GUARANTEED OPERATING RANGES

Symbol	Parameter	Min	Тур	Max	Unit
V _{CC}	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
I _{OL}	Output Current – Low			8.0	mA



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> LOW POWER SCHOTTKY



PLASTIC N SUFFIX CASE 646



SOIC D SUFFIX CASE 751A



ORDERING INFORMATION

Device	Package	Shipping		
SN74LS86N	14 Pin DIP	2000 Units/Box		
SN74LS86D	14 Pin	2500/Tape & Reel		



SN74LS86

		Limits					
Symbol	Parameter	Min	Тур	Max	Unit	Test Conditions	
V _{IH}	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	
V _{IK}	Input Clamp Diode Voltage		-0.65	-1.5	V	$V_{CC} = MIN$, $I_{IN} = -18 \text{ mA}$	
V _{OH}	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 _{OL}	Output LOW Voltage		0.25	0.4	V	I _{OL} = 4.0 mA	$V_{CC} = V_{CC} MIN,$
			0.35	0.5	V	I _{OL} = 8.0 mA	V _{IN} = V _{IL} or V _{IH} per Truth Table
				40	μΑ	V _{CC} = MAX, V _{IN} = 2.7 V	
IIН	Input HIGH Current			0.2	mA	V _{CC} = MAX, V _{IN} = 7.0 V	
IIL	Input LOW Current			-0.8	mA	$V_{CC} = MAX, V_{IN} = 0.4 V$	
I _{OS}	Short Circuit Current (Note 1)	-20		-100	mA	V _{CC} = MAX	
I _{CC}	Power Supply Current			10	mA	V _{CC} = MAX	

DC CHARACTERISTICS OVER OPERATING TEMPERATURE RANGE (unless otherwise specified)

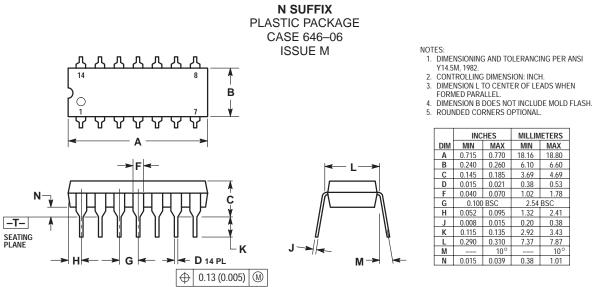
Note 1: Not more than one output should be shorted at a time, nor for more than 1 second.

AC CHARACTERISTICS (T_A = 25° C)

		Limits					
Symbol	Parameter	Min	Тур	Max	Unit	Test Conditions	
t _{PLH} t _{PHL}	Propagation Delay, Other Input LOW		12 10	23 17	ns	V _{CC} = 5.0 V C _L = 15 pF	
t _{PLH} t _{PHL}	Propagation Delay, Other Input HIGH		20 13	30 22	ns		

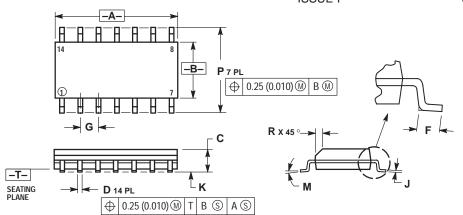
SN74LS86

PACKAGE DIMENSIONS



	INC	HES	MILLIMETERS		
DIM	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	
Μ		10°		10°	
Ν	0.015	0.039	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.
- MAXIMUM MOLD PROTRUSION 0.15 (0.006) PER SIDE.
 DIMENSION D DOES NOT INCLUDE DAMBAR
- PROTRUSION ALLOWABLE 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°			
Р	5.80	6.20	0.228	0.244			
R	0.25	0.50	0.010	0.019			

SN74LS86

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