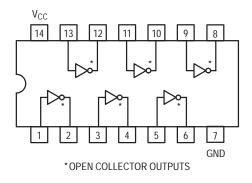
Hex Inverter



GUARANTEED OPERATING RANGES

Symbol	Parameter	Min	Тур	Мах	Unit
V _{CC}	Supply Voltage	4.75	5.0	5.25	V
T _A	Operating Ambient Temperature Range		25	70	°C
V _{OH}	Output Voltage – High			5.5	V
I _{OL}	Output Current – Low			8.0	mA



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> LOW POWER SCHOTTKY





ORDERING INFORMATION

Device	Package	Shipping		
SN74LS05N	14 Pin DIP	2000 Units/Box		
SN74LS05D	14 Pin	2500/Tape & Reel		

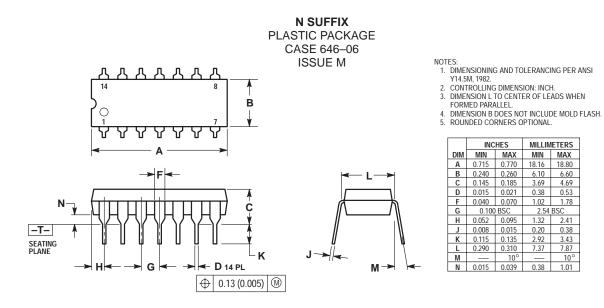
DC CHARACTERISTICS OVER OPERATING TEMPERATURE RANGE	(unless otherwise specified)

	Parameter		Limits					
Symbol		Min	Тур	Max	Unit	Test Conditions		
V _{IH}	Input HIGH Voltage	2.0			V	Guaranteed Input HIGH Voltage for All Inputs		
VIL	Input LOW Voltage			0.8	V	Guaranteed Input LOW Voltage for All Inputs		
V _{IK}	Input Clamp Diode Voltage		-0.65	-1.5	V	$V_{CC} = MIN, I_{IN} = -18 \text{ mA}$		
I _{OH}	Output HIGH Current			100	μΑ	V _{CC} = MIN, V _{OH} = MAX		
V _{OL}	Output LOW Voltage		0.25	0.4	V	I _{OL} = 4.0 mA	$V_{CC} = V_{CC} MIN,$ $V_{IN} = V_{IL} \text{ or } V_{IH}$	
			0.35	0.5	V	I _{OL} = 8.0 mA	$v_{IN} = v_{IL} or v_{IH}$ per Truth Table	
1				20	μΑ	V _{CC} = MAX, V _{IN} = 2.7 V		
I _{IH} Input HIGH Current				0.1	mA	V _{CC} = MAX, V _{IN} = 7.0 V		
IIL	Input LOW Current			-0.4	mA	$V_{CC} = MAX, V_{IN} = 0.4 V$		
	Power Supply Current							
I _{CC}	Total, Output HIGH			2.4	mA	V _{CC} = MAX		
	Total, Output LOW			6.6	1			

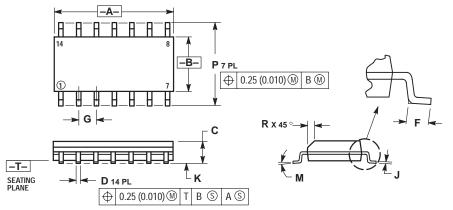
AC CHARACTERISTICS ($T_A = 25^{\circ}C$)

		Limits				
Symbol	Parameter	Min	Тур	Max	Unit	Test Conditions
t _{PLH}	Turn–Off Delay, Input to Output		17	32	ns	V _{CC} = 5.0 V
t _{PHL}	Turn–On Delay, Input to Output		15	28	ns	C_L = 15 pF, R_L = 2.0 k Ω

PACKAGE DIMENSIONS



D SUFFIX PLASTIC SOIC PACKAGE CASE 751A-03 **ISSUE F**



NOTES

OTES: 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982. 2. CONTROLLING DIMENSION: MILLIMETER. 3. DIMENSIONS A AND B DO NOT INCLUDE MOLD PROTRUSION. 4. MAXIMUM MOLD PROTRUSION 0.15 (0.006) DED SIGN.

1.78

2.41

0.38

3.43 7.87

10°

1.01

MAXIMUM MOLD PROTROSION 0.15 (0.000) PER SIDE.
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°				
Р	5.80	6.20	0.228	0.244				
R	0.25	0.50	0.010	0.019				

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Fax Response Line: 303–675–2167 800–344–3810 Toll Free USA/Canada

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