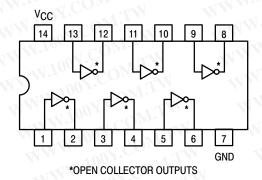
# **Hex Inverter**





Symbol	Parameter	Min	Тур	Max	Unit
VCC	Supply Voltage	4.75	5.0	5.25	V
T <sub>A</sub>	Operating Ambient Temperature Range	OV.C	25	70	°C
VOH	Output Voltage - High	LOOY!	JO 2 V	5.5	V
loL	Output Current – Low	, and	$CO_{\lambda_{\lambda}}$	8.0	mA

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ON Semiconductor"

# LOW POWER SCHOTTKY



PLASTIC N SUFFIX CASE 646



SOIC D SUFFIX CASE 751A



SOEIAJ M SUFFIX CASE 965

### **ORDERING INFORMATION**

Device	Package	Shipping
SN74LS05N	14 Pin DIP	2000 Units/Box
SN74LS05D	SOIC-14	55 Units/Rail
SN74LS05DR2	SOIC-14	2500/Tape & Reel
SN74LS05M	SOEIAJ-14	See Note 1
SN74LS05MEL	SOEIAJ-14	See Note 1

 For ordering information on the EIAJ version of the SOIC package, please contact your local ON Semiconductor representative.

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

	Parameter	Limits				IN TOOL COLLEY	
Symbol		Min	Тур	Max	Unit	Test Conditions	
V <sub>IH</sub>	Input HIGH Voltage	2.0	100Y.C	OM.T	V	Guaranteed Input HIGH Voltage for All Inputs	
V <sub>IL</sub>	Input LOW Voltage	WW	W.100Y.	0.8	V	Guaranteed Input LOW Voltage for All Inputs	
VIK	Input Clamp Diode Voltage	77	-0.65	-1.5	V	V <sub>CC</sub> = MIN, I <sub>IN</sub>	ı = −18 mA
loн	Output HIGH Current	44	M.100	100	μΑ	V <sub>CC</sub> = MIN, V <sub>C</sub>	OH = MAX
V <sub>OL</sub> Output LOW Volta	M. TIOON. CONTIN		0.25	0.4	V	I <sub>OL</sub> = 4.0 mA	VCC = VCC MIN,
	Output LOW Voltage		0.35	0.5	V	I <sub>OL</sub> = 8.0 mA	V <sub>IN</sub> = V <sub>IL</sub> or V <sub>IH</sub> per Truth Table
	WY COOK ON THE		WA	20	μА	V <sub>CC</sub> = MAX, V	IN = 2.7 V
lН	Input HIGH Current		MM	0.1	mA	V <sub>CC</sub> = MAX, V	IN = 7.0 V
Ι <sub>Ι</sub> L	Input LOW Current	N	MMA	-0.4	mA	V <sub>CC</sub> = MAX, V	IN = 0.4 V
ICC	Power Supply Current Total, Output HIGH	TW .	WW	2.4	mA	V <sub>CC</sub> = MAX	MMM.1007
	Total, Output LOW	LA	77	6.6	- c0	T.T.	

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

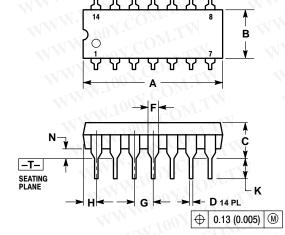
	WWW.LOOV.C	Jan.	Limits	MMA	100 Y.C	WW WW
Symbol	Parameter	Min	Тур	Max	Unit	Test Conditions
<sup>t</sup> PLH	Turn-Off Delay, Input to Output	COM.	17	32	ns	V <sub>CC</sub> = 5.0 V
t <sub>PHL</sub>	Turn-On Delay, Input to Output	COM	15	28	ns	$C_L = 15 \text{ pF, } R_L = 2.0 \text{ k}\Omega$

#### PACKAGE DIMENSIONS

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### **N SUFFIX** PLASTIC PACKAGE CASE 646-06 ISSUE M

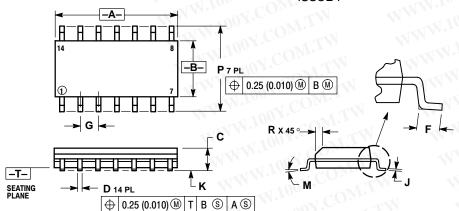




- NOTES:
  1. DIMENSIONING AND TOLERANCING PER ANSI
- Y14.5M, 1982.
  CONTROLLING DIMENSION: INCH.
- DIMENSION L TO CENTER OF LEADS WHEN FORMED PARALLEL.
- 4. DIMENSION B DOES NOT INCLUDE MOLD FLASH.
  5. ROUNDED CORNERS OPTIONAL.

	INCHES		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	777	10°		10°
N	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.
- 3. DIMENSIONS A AND B DO NOT INCLUDE MOLD PROTRUSION.
- MOLD PROTRUSION.

  4. MAXIMUM MOLD PROTRUSION 0.15 (0.006) PER SIDE.

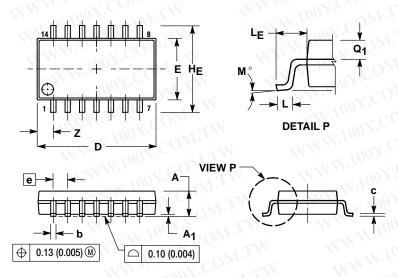
  5. DIMENSION D DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.127 (0.005) TOTAL IN EXCESS OF THE D DIMENSION AT MAXIMUM MATERIAL CONDITION.

W	MILLIM	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	

#### PACKAGE DIMENSIONS

**M SUFFIX** SOEIAJ PACKAGE

CASE 965-01 **ISSUE O** 



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- NOTES:
  1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982. CONTROLLING DIMENSION: MILLIMETER.
- DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH OR PROTRUSIONS AND ARE MEASURED AT THE PARTING LINE. MOLD FLASH OR PROTRUSIONS SHALL NOT EXCEED 0.15 (0.006) PER SIDE.
- TERMINAL NUMBERS ARE SHOWN FOR REFERENCE ONLY. THE LEAD WIDTH DIMENSION (b) DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.08 (0.003)
  TOTAL IN EXCESS OF THE LEAD WIDTH DIMENSION AT MAXIMUM MATERIAL CONDITION.
  DAMBAR CANNOT BE LOCATED ON THE LOWER RADIUS OR THE FOOT. MINIMUM SPACE
  BETWEEN PROTRUSIONS AND ADJACENT LEAD TO BE 0.46 ( 0.018).

κT	MILLIMETERS		INCHES		
DIM	MIN	MAX	MIN	MAX	
Α		2.05		0.081	
Α1	0.05	0.20	0.002	0.008	
b	0.35	0.50	0.014	0.020	
С	0.18	0.27	0.007	0.011	
D	9.90	10.50	0.390	0.413	
Ē	5.10	5.45	0.201	0.215	
е	1.27 BSC		0.050 BSC		
HE	7.40	8.20	0.291	0.323	
0.50	0.50	0.85	0.020	0.033	
上	1.10	1.50	0.043	0.059	
M	0 °	10°	0 °	10 °	
Q <sub>1</sub>	0.70	0.90	0.028	0.035	
Z	, <u>1</u>	1.42		0.056	

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