

54/7405
54H/74H05
54S/74S05
54S/74S05A
54LS/74LS05

HEX INVERTER
(With Open-Collector Output)

ORDERING CODE: See Section 9

PKGS	PIN OUT	COMMERCIAL GRADE	MILITARY GRADE	PKG TYPE
		V _{CC} = +5.0 V ±5%, T _A = 0° C to +70° C	V _{CC} = +5.0 V, ±10%, T _A = -55° C to +125° C	
Plastic DIP (P)	A	7405PC, 74H05PC 74S05PC, 74S05APC 74LS05PC		9A
Ceramic DIP (D)	A	7405DC, 74H05DC 74S05DC, 74S05ADC 74LS05DC	5405DM, 54H05DM 54S05DM, 54S05ADM 54LS05DM	6A
Flatpak (F)	A	74S05FC, 74S05AFC 74LS05FC	54S05FM, 54S05AFM 54LS05FM	3I
	B	7405FC, 74H05FC	5405FM, 54H05FM	

INPUT LOADING/FAN-OUT: See Section 3 for U.L. definitions

PINS	54/74 (U.L.) HIGH/LOW	54/74H (U.L.) HIGH/LOW	54/74S (U.L.) HIGH/LOW	54/74LS (U.L.) HIGH/LOW
Inputs	1.0/1.0	1.25/1.25	1.25/1.25	0.5/0.25
Outputs	OC**/10	OC**/12.5	OC**/12.5	OC**/5.0 (2.5)

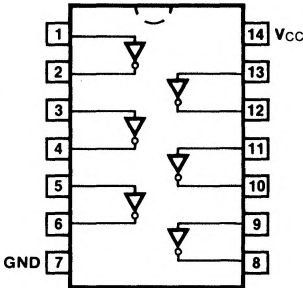
DC AND AC CHARACTERISTICS: See Section 3*

SYMBOL	PARAMETER	54/74		54/74H		54/74S		54/74LS		UNITS	CONDITIONS	
		Min	Max	Min	Max	Min	Max	Min	Max			
ICCH	Power Supply	12		26		19.8		2.4		mA	VIN = Gnd	VCC = Max
ICCL	Current	33		58		54		6.6			VIN = Open	
tPLH	Propagation Delay	55		18		2.0	7.5	22		ns	Fig. 3-2, 3-4	
tPHL		15		15		2.0	7.0	18				
tPLH	Propagation Delay (54S/74S05A only)					2.0	5.5			ns	Fig. 3-2, 3-4	
tPHL						1.5	5.0					

*DC limits apply over operating temperature range; AC limits apply at T_A = +25° C and V_{CC} = +5.0 V.

**OC — Collector

CONNECTION DIAGRAMS
PINOUT A



PINOUT B

