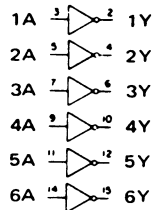
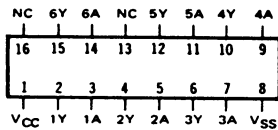
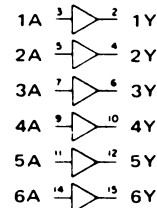
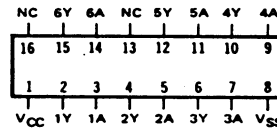


SCL4049UB

INVERTING HEX BUFFER

**SCL4050B**

NON-INVERTING HEX BUFFER

**STATIC CHARACTERISTICS: ($V_{SS} = 0\text{ V}$)**

PARAMETER	CONDITIONS	V_{DD} (Vdc)	T_{LOW}^* MIN	T_{LOW}^* MAX	+ 25°C TYP	MAX	T_{HIGH}^{**} MIN	T_{HIGH}^{**} MAX	UNIT
QUIESCENT DEVICE CURRENT I_{DD}	$V_{IN} = V_{SS}$ OR V_{DD}	5		1	0.005	1		30	μAdc
		10		2	0.01	2		60	
		15		4	0.02	4		120	
OUTPUT LOW (SINK) CURRENT I_{OL} $V_{IN} = V_{SS}$ OR V_{DD}	$V_{OL} = 0.4\text{ V}$ $V_{OL} = 0.5\text{ V}$ $V_{OL} = 1.5\text{ V}$	5	3.7		3	6.4	2.1		mAdc
		10	10		8	16	5.6		
		15	30		24	40	16.8		

Note: * T_{LOW} = -55°C for C / H devices, -40°C for E / S devices, ** T_{HIGH} = +125°C for C / H devices, +85°C for E / S devices.

DYNAMIC CHARACTERISTICS: ($C_L = 50\text{ pF}$, $T_A = 25^\circ\text{C}$)

PARAMETER	V_{DD} (Vdc)	V_{CC} (Vdc)	MINIMUM	TYPICAL	MAXIMUM	UNIT
PROPAGATION DELAY TIME t_{PLH} (4049UB)	5	5		60	120	ns
	10	10		32	65	
	15	15		25	50	
	10	5		45	90	
	15	5		45	90	
PROPAGATION DELAY TIME t_{PLH} (4050B)	5	5		70	140	ns
	10	10		40	80	
	15	15		30	60	
	10	5		45	90	
	15	5		40	80	
PROPAGATION DELAY TIME t_{PHL} (4049UB)	5	5		32	65	ns
	10	10		20	40	
	15	15		15	30	
	10	5		15	30	
	15	5		10	20	
PROPAGATION DELAY TIME t_{PHL} (4050B)	5	5		55	110	ns
	10	10		27	55	
	15	15		15	30	
	10	5		50	100	
	15	5		50	100	

SCL4049UB

INVERTING HEX BUFFER

SCL4050B

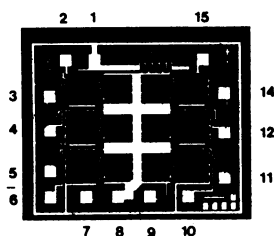
NON-INVERTING HEX BUFFER

DYNAMIC CHARACTERISTICS: ($C_L = 50\text{pF}$, $T_A = 25^\circ\text{C}$)

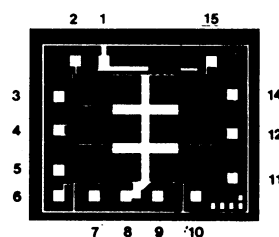
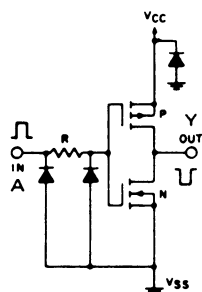
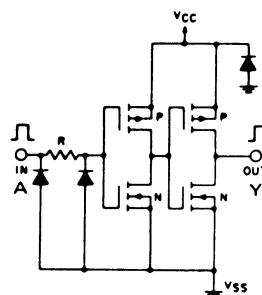
PARAMETER	V_{DD} (Vdc)	V_{CC} (Vdc)	MINIMUM	TYPICAL	MAXIMUM	UNIT
OUTPUT TRANSITION TIME t_{TLH} ,	5	5		80	160	ns
	10	10		40	80	
	15	15		30	60	
OUTPUT TRANSITION TIME t_{THL}	5	5		30	60	ns
	10	10		20	40	
	15	15		15	30	
INPUT CAPACITANCE (4049UB)	C_{IN}	C_{IN}		15	22.5	pF

DIE DRAWING**SCL4049UB**

71 x 59 mils

**SCL4050B**

71 x 59 mils

**SCHEMATIC DIAGRAMS****SCL4049UB****SCL4050B**

Note: Refer to "SCL4000B SERIES FAMILY SPECIFICATIONS" for remaining Dynamic & Static Characteristics, and, for recommended and maximum operating conditions.