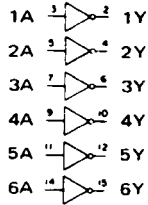
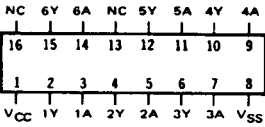


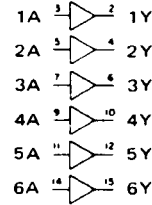
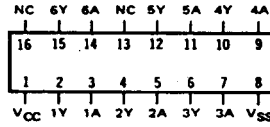
SCL4049UB

INVERTING HEX BUFFER



SCL4050B

NON-INVERTING HEX BUFFER



STATIC CHARACTERISTICS: (V_{SS} = 0 V)

PARAMETER	CONDITIONS	V _{DD} (Vdc)	T _{LOW} *		+25°C			T _{HIGH} **		UNIT
			MIN	MAX	MIN	TYP	MAX	MIN	MAX	
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 _{OL} = 0.4V V _{OL} = 0.5V V _{OL} = 1.5V V _{IN} = V _{SS} OR V _{DD}	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 = 50pF, T_A = 25°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

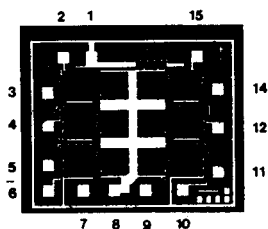
DYNAMIC CHARACTERISTICS: ($C_L = 50\text{pF}$, $T_A = 25^\circ\text{C}$)

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

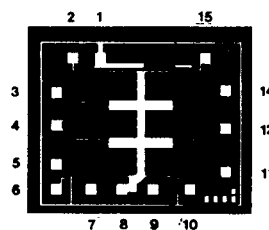
SCL4049UB

71 x 59 mils



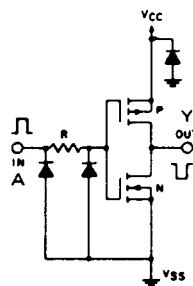
SCL4050B

71 x 59 mils

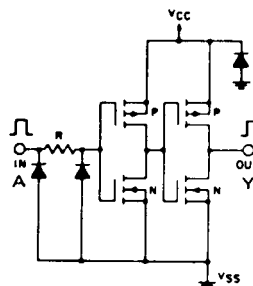


SCHEMATIC DIAGRAMS

SCL4049UB



SCL4050B



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