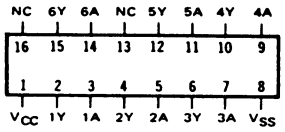
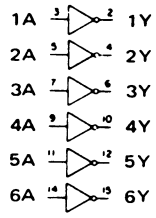
SCL4049UB

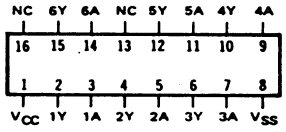
INVERTING HEX BUFFER

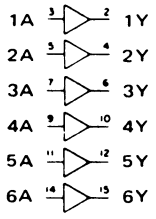




SCL4050B

NON-INVERTING HEX BUFFER





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

PARAMETER	CONDITIONS	V_{DD} (Vdc)	T_{LOW}* MIN	T_{LOW}* MAX	+25°C MIN	+25°C TYP	+25°C 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} = 0.4V	5	3.7		3	6.4		2.1		mAdc
	V_{OL} = 0.5V	10	10		8	16		5.6		
	V_{OL} = 1.5V	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

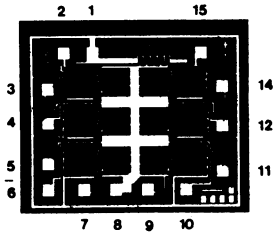
SCL4050B
NON-INVERTING HEX BUFFER

DYNAMIC CHARACTERISTICS: (C_L = 50pF, T_A = 25°C)

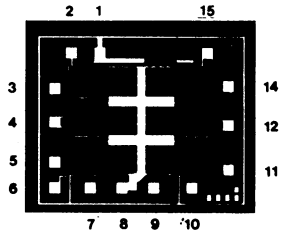
PARAMETER	V_{DD} (Vdc)	V_{CC} (Vdc)	MINIMUM	TYPICAL	MAXIMUM	UNIT
OUTPUT TRANSITION TIME t_{TLH},	5	5		80	160	ns
	10	10		40	80	
	15	15		30	60	
OUTPUT TRANSITION TIME t_{THL}	5	5		30	60	ns
	10	10		20	40	
	15	15		15	30	
INPUT CAPACITANCE (4049UB)	C_{IN}	C_{IN}		15	22.5	pF

DIE DRAWING

SCL4049UB
71 x 59 mils

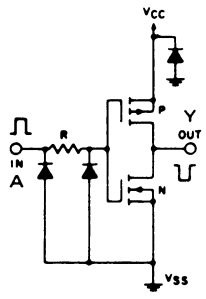


SCL4050B
71 x 59 mils

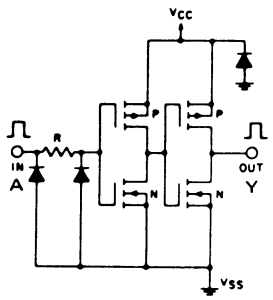


SCHEMATIC DIAGRAMS

SCL4049UB



SCL4050B



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