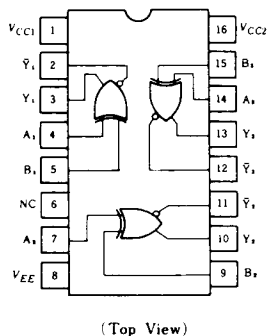
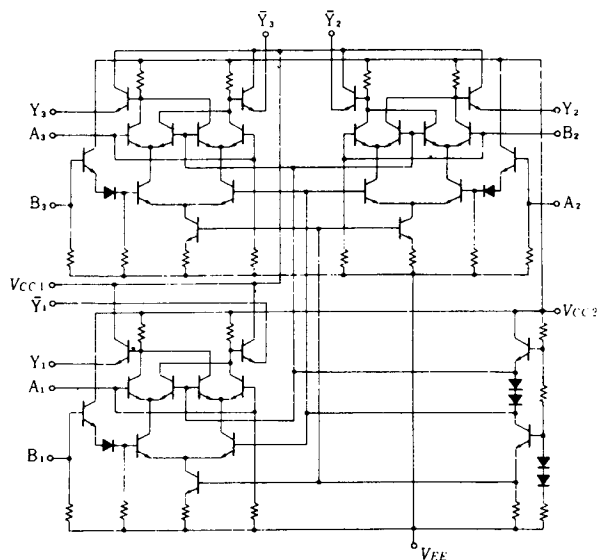


Triple 2-input Exclusive-OR/Exclusive-NOR Gates

PIN ARRANGEMENT



CIRCUIT SCHEMATIC



DC CHARACTERISTICS ($V_{EE} = -5.2V$, $T_a = -30 \sim +85^\circ C$)

Item	Symbol	Test Condition		min	typ	max	Unit
Supply Current	I_{EE}	All inputs = $-0.810V$		$25^\circ C$	—	—	28 mA
Input Current	I_{IH}	$V_{IH} = -0.810V$	A input	$25^\circ C$	—	—	265 μA
			B input	$25^\circ C$	—	—	220 μA
	I_{IL}	$V_{IL} = -1.850V$		$25^\circ C$	0.5	—	μA
Output Voltage	V_{OH}	$V_{IH} = -0.890V$ or $V_{IL} = -1.890V$		$-30^\circ C$	-1.060	—	-0.890 V
		$V_{IH} = -0.810V$ or $V_{IL} = -1.850V$		$25^\circ C$	-0.960	—	-0.810 V
		$V_{IH} = -0.700V$ or $V_{IL} = -1.825V$		$85^\circ C$	-0.890	—	-0.700 V
	V_{OL}	$V_{IL} = -1.890V$ or $V_{IH} = -0.890V$		$-30^\circ C$	-1.890	—	-1.675 V
		$V_{IL} = -1.850V$ or $V_{IH} = -0.810V$		$25^\circ C$	-1.850	—	-1.650 V
		$V_{IL} = -1.825V$ or $V_{IH} = -0.700V$		$85^\circ C$	-1.825	—	-1.615 V
Output Threshold Voltage	V_{OHA}	$V_{IHA} = -1.205V$ or $V_{ILA} = -1.500V$		$-30^\circ C$	-1.080	—	— V
		$V_{IHA} = -1.105V$ or $V_{ILA} = -1.475V$		$25^\circ C$	-0.980	—	— V
		$V_{IHA} = -1.035V$ or $V_{ILA} = -1.440V$		$85^\circ C$	-0.910	—	— V
	V_{OLA}	$V_{ILA} = -1.500V$ or $V_{IHA} = -1.205V$		$-30^\circ C$	—	—	-1.655 V
		$V_{ILA} = -1.475V$ or $V_{IHA} = -1.105V$		$25^\circ C$	—	—	-1.630 V
		$V_{ILA} = -1.440V$ or $V_{IHA} = -1.035V$		$85^\circ C$	—	—	-1.595 V

■ AC CHARACTERISTICS ($V_{EE} = -3.2V$, $V_{CC} = +2.0V$, $T_a = -30 \sim +85^\circ C$)

■AC CHARACTERISTICS (V _{EE} =-3.2V, V _{CC} =+2.0V, I _A =30μA, I _B =30μA)								Unit
Item	Symbol	Test Condition		min	typ	max		
Propagation Delay Time	t _{PLH}	A input	R _L =50Ω	-30°C	1.1	—	3.8	ns
				25°C	1.1	2.0	3.7	
				85°C	1.1	—	4.0	
		B input		-30°C	1.1	—	3.8	
				25°C	1.1	2.8	3.7	
				85°C	1.1	—	4.0	
	t _{PHL}	A input		-30°C	1.1	—	3.8	ns
				25°C	1.1	2.0	3.7	
				85°C	1.1	—	4.0	
		B input		-30°C	1.1	—	3.8	
				25°C	1.1	2.8	3.7	
				85°C	1.1	—	4.0	
Rise/Fall Time	t _{TLH}	A, B input	-30°C	1.1	—	3.5	ns	
			25°C	1.1	2.5	3.5		
			85°C	1.1	—	3.8		
	t _{THL}		-30°C	1.1	—	3.5	ns	
			25°C	1.1	2.5	3.5		
			85°C	1.1	—	3.8		

Note) Please refer to test circuit and waveform of common item.