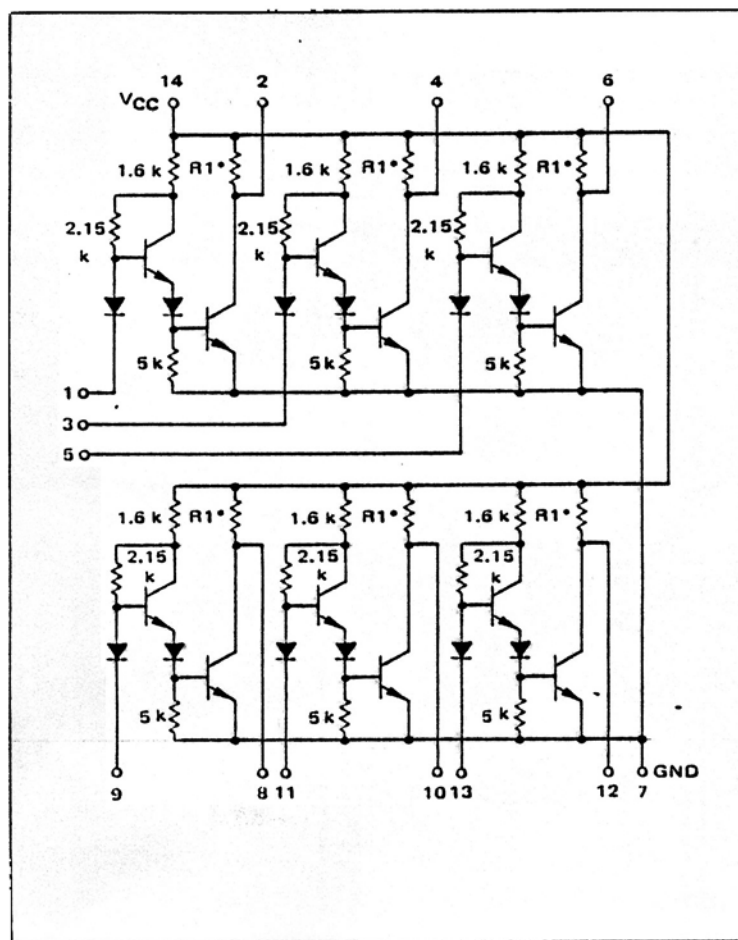
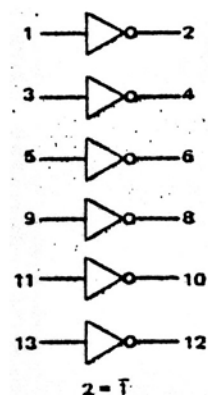


Legacy Device: *Motorola MC937*



This element consists of six inverter circuits.



Input Loading Factor = 1

Output Loading Factor:

937/ 837 = 7

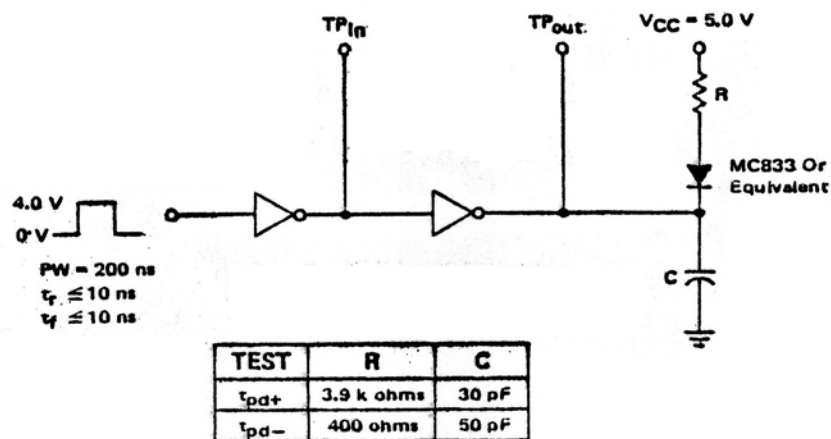
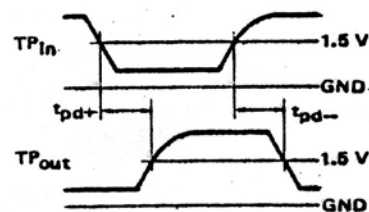
Total Power Dissipation

937/ 837 = 90 mW typ/pkg

Propagation Delay Time

937/ 837 = 25 ns typ

SWITCHING TIME TEST CIRCUIT AND WAVEFORMS



ELECTRICAL CHARACTERISTICS		Pin Under Test		TEST CURRENT / VOLTAGE VALUES																			
				mA						Volts													
				I _{OL}		I _{OH}		V _{IL}		V _{IH}		V _{OL}		V _{OH}									
				937	837	937	837	937	837	937	837	937	837	937	837								
Characteristic	Symbol	Pin Under Test	TEST CURRENT / VOLTAGE APPLIED TO PINS LISTED BELOW:																				
			937 TEST LIMITS						837 TEST LIMITS														
			-55°C		+25°C		+125°C		0°C		+25°C		+75°C										
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max									
Output Voltage	V _{OL} V _{OH}	2 2	-	0.40	-	2.60	-	0.45	-	2.60	-	0.45	-	0.50	V _{CC}	2	-	1	-	-	14	-	7
Short-Circuit Current	I _{SC}	2	-	-4.00	-	-4.00	-	-3.90	-	-3.90	-	-3.90	-	-3.75	mAdc	-	-	-	-	-	14	-	1.2, 7
Reverse Current	I _R	1	-	2.0	-	2.0	-	5.0	-	5.0	-	5.0	-	10	μAdc	-	-	-	-	-	14	-	7
Output Leakage Current	I _{CEX}	2	-	-	-	-	-	-	-	-	-	-	-	-	μAdc	-	-	-	-	-	14	-	1, 7
Forward Current	I _F	1	-	-1.60	-	-1.60	-	-1.50	-	-1.40	-	-1.40	-	-1.33	mAdc	-	-	-	-	-	14	-	7
Power Drain Current (Total Device)	I _{PDH} I _{max}	14 14	-	-	-	-	-	-	-	-	-	-	-	-	mAdc	-	-	-	-	-	14	-	7
Switching Times	t _{pd} t _{pd} -	1, 2 1, 3	-	-	-	-	-	-	-	-	-	-	-	-	ns	-	-	-	-	-	14	-	1.3, 5, 7, 9, 11, 13
MCP371 MC837																							

Pins not listed are left open.

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