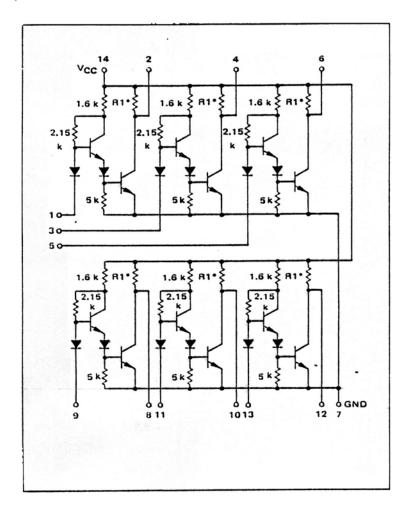
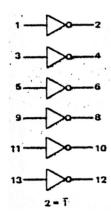


ML937 Hex Inverter

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 Dalay Time

937/ 837 = 25 ns typ

SWITCHING TIME TEST CIRCUIT AND WAVEFORMS

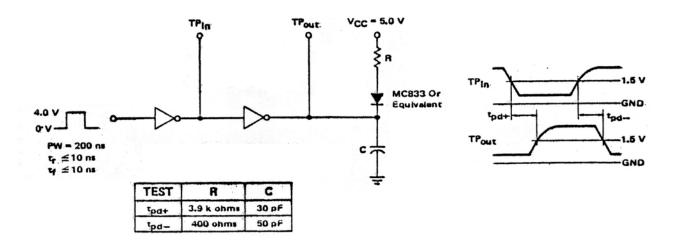


Fig. State State									-	7	1	*					_		TEST	TEST CURRENT / VOLTAGE VALUES	V/ 11	DITAG	E VAL	UES					
San Feat F	ELECTRICAL C	HARA	CTE	RIST	CS					4							_	E	4					Volts				T	
Finderstate 937 937 10.4 10.5 1.40 2.10 1.00 1.20 1.40 2.10 1.00 1.20 1.40 2.10 1.00 1.20 1.40 2.10 1.20 1.20 1.20 1.20 2.00 1.20 2.00 1.20 2.00 1.20 2.00 1.20 2.00 1.20 2.00 1.20 2.	Test procedures ar	e showr	for	Vino	one				0	7	-					0 1	tsa									-		T	
Prince P	nverter. The other	r inverte	rs are	teste	e i					4	J				-	emper	attre	937	637	>"	¥ <		>"	Vcex	Vcc	V CC1 V	V HOO	1	
Symbol Test Wol. Symbol Test Wol. Wol	he same manner.									1						-	55°C	10.4	-0.5	1.40	2.10		4.00			. 50 5	20		
Symbol Test Win Max Win Wax Wax Win Wax									on .	7					937	~	25℃	11.0	-0.5	1.10	2.00		4.00	4.50	5.00	50 5	. 50 8	8.00	
Pin									:	4	Į					+	25°C	8 6	-0.5	0.80	2.00		4.00		1	50 5	5.50		
Pin									:	7	,						_	837	837									Г	
Print Prin									13	4	1	12				,	0,0	11.0	1	1.20	2.00	0.45	4.00			00 5	_		
Symbol Test Min Max Min Max Min															837	~	25°C	11.0	-0.5	1.10	1.90	0.45	4.00	5.00	9.00	00 5	00	8.00	
Symbol Test Min Max Min Mi																	75.6	10.4	-0.5	0.95	1.80	0.50	4.00		1000	00	00		
Symbol Test Min Max Min			P.	1 1			937	1531	IMITS					837 1	EST L	MITS		TE	ST CURRENT / VO	ITAGE	APPL	ED 10	PINS	LISTE	D BEIG	. M.	1	T	
Feb. Vol. 2 - 0.40 - 0.45 - 0	Characteristic	Symbol	Under Test	Min _	Max Max	_	Max Max		Max Max		_	Max		Max Max			Unit	_5	l _o	>"	×		>"	VCEX	Vcc	V CCL	> HOU	Ī	Grd
VOH 2 2.50 2.60 2.50 Vod 2.60 2.50 2.50 Vod 2.60 Vod V	Output Voltage		-	П.	0.40	-	0.40	$ \cdot $	0.45	Vdc	Ŀ	0.45	1	0.45	1	0.50	Vdc	3		1	-		1	1	11.	1	1.	11.	1
1 C 24.003.90 mAdc3.903.903.90 mAdc - 5.0 mAdc - 1.40 mAdc -		, 5 , 5	~	2.50				2.50		Vdc	2.60				2.50		Vdc		64	-						=			
X 2 50 5.0 μAdc - 5.0 - 10 μAdc 1.33 mAdc 1.32 mAdc 1.33 mAdc 1.35 mAdc	Short-Circuit Current	1sc			8		8		9	1440		00		00		200	1										:		:
1 - 1.60 - 1.50 mAdc1.401.33 mAdc 32.0 1.50 mAdc1.401.33 mAdc 1.50 mAdc 1.50 mAdc 1.50 mAdc 1.50 mAdc 1.50 mAdc 1.50 mAdc 16.5	Reverse Current	-4	-		2.0].	2.0		5.0	1 Ade		5.0		5.0		10	n Ade						-	1.	1.	+	=	1.	1
1 - 1.60 - 1.50 mAdc - 1.40 - 1.33 mAdc - 1.30 mAdc - 1.30 mAdc - 1.30 mAdc - 1.50 mAdc - 1.40 - 1.33 mAdc - 1.50	Output Leakage Current	JCE X	~				20			μ Adc	_			100		_	₽ Adc							2,34					1,7
H 14 32.0 16.5 24 14 16.5 16.5 15.5 - 15.5 - 15.5 -	Forward Current	1,	-		-1.60		-1.60		-1.50	mAde		-1.40		-1.40		1.33	mAde					-				-	=		-
H 14 32.0 16.5 16.5 14 16.5 14 16.5 14 16.5 14 15.5 15.5	Power Drain Current (Tobal Device)									mAde							TI.Adc											_	
1,2 · · · 15 60 · · · · · · · 15 60 · · · · · · · · 10 30 · · · · · · · · · · · · · · · · · ·		HOq!	z z				32.0 16.5			_				2 39			_								z .			. =	7,3.5.7.
1,2 15 60	Switching Times																	Pulse In	Pulse Out							-	_		
1,2 10 30 10 30										2 —							¥ -		~ -						:-			-	
1	MC937 MC837	į	7.5			2 2	9 00			_			2 2	9 9			_												
	2	ž.									1				,	7	7								1	1	1	1	

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