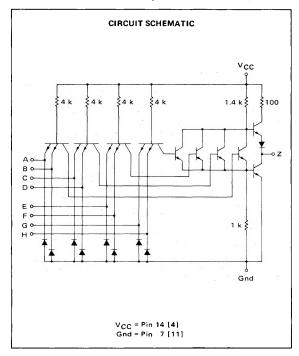
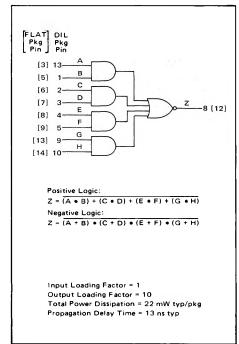
4-WIDE 2-INPUT
"AND-OR-INVERT" GATE

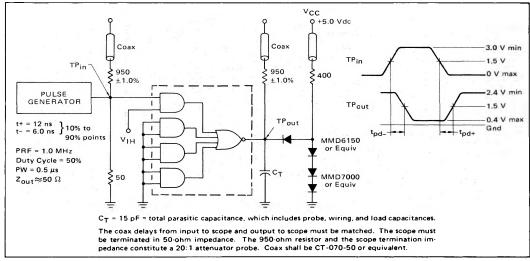
## MC5454 · MC7454

Add Suffix F for TO-86 ceramic package (Case 607).
Suffix L for TO-116 ceramic package (Case 632).
Suffix P for TO-116 plastic package (Case 605) MC7454 only.





## SWITCHING TIME TEST CIRCUIT AND WAVEFORMS



## MC5454, MC7454 (continued)

## ELECTRICAL CHARACTERISTICS

Test procedures are shown for only one input. To complete testing, sequence through remaining inputs in the same manner.

£ 1 2 4 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				N	<b>—8</b> [12]				put. To complete festing, sequence through remaining inputs in the same manner.	comple ng input	s in the	ng, seque	ance the	<b>d</b> guo							
[13] 9—[14] 10—[14]		]		) ) ) ) )	V = V <sub>CC</sub> = Pin 14 [4]	14 [4]						TEST (	URREN	r/voltag	E VALUES	TEST CURRENT/VOLTAGE VALUES (All Temperatures)	eratures)				
				.G	Gnd = Pin 7 [11]	7 [11]			mA	A					Volts						
									_i	-B	۸ ا	<b>&gt;</b>	× H	V <sub>R1</sub>	V <sub>R2</sub>	۷# ۱	V <sub>th</sub> 0	<mark>ر</mark> د	Vccı	V <sub>CCH</sub>	
							Ž	MC5454	16	-0.4	0.4		5.5	4.5	5.0	2.0	0.8	5.0	4.50	5.50	
		:		MC5454 Test Limits	Limits	MC74	M 54 Test	MC7454	16	-0.4	4.0	2.4	5.5	4.5	5.0	2.0	0.8	5.0	4.75	5.25	Pin 7[11] is grounded for all tests in addi-
		Inder		-55 to +125°C	25°C	0	0 to +70°C	ပ				3	KEN!	OLIAGE	I L	IEST CURRENT/VOLIAGE APPLIED TO PINS LISTED BELOW		. no			listed below:
Characteristic	Symbol	Test	-	Мах	Unit	Ain	Max	- Hi	_ō	_ĕ	>"	>=	> H	>	۲ الاع	٧#١	V#0	۷,	V <sub>CCL</sub>	V <sub>CG</sub>	Quq
Input Forward Current	I.	В		-1.6	mÁdc	612.3	-1.6	mAdc			м		12.	4			/ i			>	1
Leakage Current	$I_{\rm R1}$	В	1	40	μAdc	ı	40	μAdc	1	1	,	В	1 :	i		ar.	i		i	Λ	A,C,D,E,F,G,H
	$^{1}_{\mathrm{R2}}$	В	n E.	1.0	mAdc		1.0	mAdc		1			В	1	1			. 1	i.	۸	A,C,D,E,F,G,H
Output Output Voltage	N <sub>OL</sub>	N		0.4	Vdc		0.4	Vdc	И		i ii.		1			A,B	1.	,	Λ	1	С,D,E,F,G,H
	МОМ	z	2.4		Vdc	2.4	1.	Vdc		N		1	-	A,D,F,H			B,C,E,		Λ		
Short-Circuit Current	Isc †	z	-20	-55	mAdc	-18	-55	mAdc				1 .	r.		1					Λ	All Inputs, Z
Power Requirements Power Supply Drain	ноd <sub>I</sub>	Λ		9.5	mAdc		9.5	mAdc					i.		All Inputs		1	-9		۸	1.30
	IPDL	Λ		8.0	mAdc		8.0	mAdc		1			7			."		- 1		Λ	All Inputs
Switching Parameters									Pulse In	Pulse Out											
Turn-On Delay	`g'	B,Z		15*	su	1	15*	ns	В	2	1.	4			1	ı	1 -	>			С,D,E,F,G,H
Turn-Off Delay	t pd+	B,Z		22*	su	. 1	22*	su	м	22	1	A				.,i	17	Δ	ń,	1	C,D,E,F,G,H
												1									

\*Tonly one output should be shorted at a time.