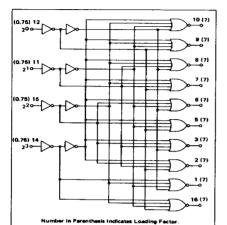
BCD-TO-DECIMAL DECODER

## PLASTIC mW MRTL MC700P/800P series

## MC770P · MC870P\*

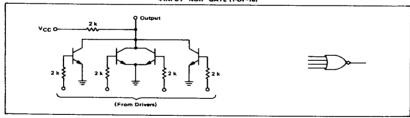




The MC770P/870P is a monolithic BCD to decimal decoder consisting of eight inverters and ten 4-input NOR gates which are utilized to convert binary coded decimal (8-42-1) input to an output, via the appropriate one of ten output lines.

													_	_	_
					7	R	JTH	1 7/	481	Æ					
			(8	CD)	Г		Oυ	TPU	JT (	DE	CIR	AA		_	l
Value	23	22	21	20	0	1	2	3	4	5	6	7	8	9	1
Pin No.	14	16	11	12	10	9	8	7	6	5	3	2	1	16	1
Logic Level	0000000111111	0000111100001111	0011001100110011	0101010101010101	1000000000000000	0-0000000000000	00-0000000000000	000100000000000	0000-0000000000	0000010000000000	0000001000000000	000000000000000000000000000000000000000	00000000000000000	000000000000000000000000000000000000000	
		, - , -		ne ) m)	V 11	<b>/</b> P	(All	ing	outs	hig	ph)				•

## 4-INPUT "NOR" GATE (1-OF-10)



## DUAL SERIES INVERTING DRIVER (1-0F-4) O VCC 2 k To Getee

\*P suffix = 16 pin dusi-in-line plastic package, Case 612.



ఔ
Ē
55
Œ
щ
घ
⋖
œ
2
℧
Ĺ
₹
≌
æ
5
ĭ
_

																		TEST VO	TEST VOLTAGE VALUES	VIUES		
															@ Test	₩.		_	(Volts)			
															emperature	2	>5	>5	> 2	>**	ج د	
															_	မ္မ	0.880	0.850	1.80	0.500	3.60	
														MG870P	_		0.830	0.800	1.80	0.460	3.60	
															÷		0.740	0.710	1.80	0.400	3.60	
															_		0.865	0.865	1.80	0.475	3.60	
														MC770P	_		0.850	0.850	1.80	0.460	3.60	
	L	L	L		100	8	MC07AD T 1		1	L	١		1		<del>-</del>	+55°C	0.800	0.800	1.80	0.430	3.60	
		£	1	,	È	5						Ş	P Tes	MC770P Test Limits		=	ST VOLTA	GE APPI	ED TO PI	TEST VOLTAGE APPLIED TO PINK LISTED BELOW	DEI OW	
		Š		٤	+	+25.0	Ŧ	+75°C		Ŧ	+15°C	+5	+25℃	ე <u>.</u> 55÷		: <u> </u>				1000	DELO#:	
Innut Current	QE .	-1	Ē	Win Max	ž	~	ž			ž	Мах	ž	¥a×	Min	Wax	Pi,	>5	>8	V For	>* *	۶.	Grad
mar inc wdir	ui, co	323		=-		<u> </u>	٠.	<u> </u>	T Adc	• •	-13		113		113	μ Adc	22				13	4,12,14.15
		12		-		-	٠.	-	-		-		_				: = :				_	4,11,14,15
Output Current	1A7	01	-1.05	•	-0.98	·	-0.98	ŀ	mAdc	-1 05		50	.	90	+	1	2				-	4,11,12,14
											- 1	3		20	è	mAdc		ė			2	7
Output voltage	Out	۱ ـ	•	<u>§</u>	٠	350		300	mVdc		40		300		320 mV	m V dc		:		:	13	4
Power Supply Current Drain	OM.	13				42		1	mAdc				42	ļ.	, w	mAdc 11,1	11,12,14,15				n	4
E constant												T	t	+	+	+	1	1				
Switching limes						2											5 E	S S				
		-	_ •			3 29			ä			,	65	,	su -		41	-		,	13	4,11,12,15
	15.6	9	,	,		99		,					2 5				4	-	1			4,11,12,15
	15-6.	9		•		20	,	,				_	2 5	_			12	ø		,		4,11,12,14
		-ac				- 65							3 5				22	9				4,11,12,14
	1	30	-		,	50		,					3 3	_			=	 		,		4,12,14,15
	12.9.	on.			-	- 59	٠,						2 3		_		= :	œ				4,12,14,15
	12-9-	a		,		20											2 :	<b>э</b>	,			4.11,14.15
		1	7	1	1	1			-				3	_	_		77	<b></b>	,		-	4,11,14,15

The other outputs are teated in the same manner. Inputs must have Von and Voll applied in accordance with the truth table for the output under teat. All nine outputs, excepting the one which is "ON" according to the truth table, are to be rested for all usable input configurations shown in the truth Test shown is for one output only. Pins not listed are left open. \*Test is shown for one output only.

