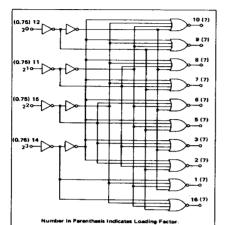
BCD-TO-DECIMAL DECODER

PLASTIC mW MRTL MC700P/800P series

MC770P · MC870P*

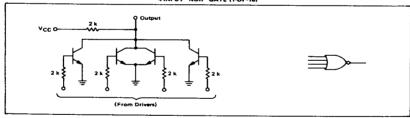




The MC770P/870P is a monolithic BCD to decimal decoder consisting of eight inverters and ten 4-input NOR gates which are utilized to convert binary coded decimal (8-42-1) input to an output, via the appropriate one of ten output lines.

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					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	/ 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.



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																		S V	TEST VOLTAGE VALUES	ALUES		
															© Test	<u> </u>			(Volts)			
															emperature	ature	>.5	>	> 2	>**	۶,	
															_	မ	0.880	0.850		0.500	3.60	
														₩370P	_	+2\$°C	0.830	0.800	1.80	0.460	3.60	
															٠	+75°C	0.740	0.710	1.80	0.400	3.80	
															_	اري +13°C	0.865	0.865	1.80	0.475	١	
														MC770 P	_	-2°C	0.850	0.850	1.80	0.460	3.60	
	L	L	L		100	ş	MC07AD T 1			L	ı		1		-	+55°C	0.800	0.800	1.80	0.430	3.60	
		£	1	,	È	5				1	i	Ì	S S	MC/70P Test Limits		_	TEST VOLTAGE APPLIED TO BINS LISTED BELOW	AGE APP	IFD TO P	NC KTE	WC CIG	
		Š		٤	+	+25.0	+	+75°C		Ŧ	+15°C	+2	+25°C	±55°C	ر	ľ					DELUM	
Innut Current	Symbol .	-1	Ē	Win Max	ž	~	¥.			ž	Wax	Αř	¥a×	Min	Wax	Unit	>5	>8	> Io	>*	٧,	Gad
mar inc main	ui, co	323		==				- 105 - 105	π Ad c		===		113		113	μ A dc	32	Ŀ	Ŀ	.	51	4,12,14.15
		2 2		-		_		-	-	1 1	-		-			_	323				_	4,11,14,15
Output Current	١,٠٠	01	-1.05	ŀ	-0.98	Ŀ	-0.98	Ŀ	mAde	-1 05	1	1 00	Ţ	- E	+	-	2	.			-	4,11,12,14
											- 1	3		20		mAdc		0		•	2	7
Output Voltage	Vout	٤	•	<u>\$</u>	٠	350		300	mVdc		9		300	-	320 n	m V dc		:	ŀ	:	13	4
Power Supply Current Drain	1 _{PD}	13				42			тАФС	·			42	1.		mAdc 1	11,12,14,15		<u>.</u>	ŀ	52	4
E de la companya de l								L					T	\dagger	\dagger	\dagger	a.de	-				
Switching limes						2											as e	S S				
		-	_ •			3 25			å ~-			,	65	,	_	su -	4	1		,	133	4,11,12,15
	15.6	9	,	,		99							2 5		_		7	-				4,11,12,15
	15-6	9		•		20	,	٠					2 2				- 12	ø		,		4,11,12,14
		æ				9							3 :				22	9		,		4,11,12,15
		30			,	Ç.							3				=	30		,		4,12,14,15
	17.9.	o,				9							R :				=	œ,				4.12.14.15
	12-9-	a	٠.			20		-		٠.			6 8	,		_	2 :	os.	,			4.11,14.15
			7						-				200			_	12	æ	,		•	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.

