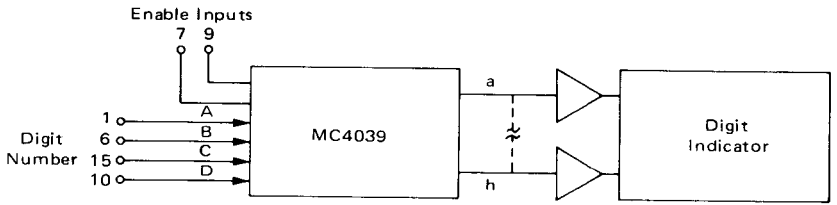


**SEVEN-SEGMENT  
CHARACTER GENERATOR**

**MC4339  
MC4039**



Output	a	b	c	d	e	f	g	h
Pin No.	12	11	5	4	13	14	2	3

V<sub>CC</sub> = Pin 16  
Gnd = Pin 8

Total Power Dissipation = 240 mW typ/pkg

**TRUTH TABLE (POSITIVE LOGIC)**

Digit Indicator	DIGIT	SEGMENTS ILLUMINATED	INPUT				OUTPUT								
			D	C	B	A	a	b	c	d	e	f	g	h	
	0	a,b,c,d,e,f	0	0	0	0	0	0	0	0	0	0	0	1	1
	1	b,c	0	0	0	1	1	0	0	1	1	1	1	1	1
	2	a,b,d,e,g	0	0	1	0	0	0	1	0	0	1	0	1	0
	3	a,b,c,d,g	0	0	1	1	0	0	0	0	1	1	0	1	
	4	b,c,f,g	0	1	0	0	1	0	0	1	1	0	0	1	
	5	a,c,d,f,g	0	1	0	1	0	1	0	0	1	0	0	1	
	6	c,d,e,f,g	0	1	1	0	1	1	0	0	0	0	0	1	
	7	a,b,c	0	1	1	1	0	0	0	1	1	1	1	1	
	8	a,b,c,d,e,f,g	1	0	0	0	0	0	0	0	0	0	0	1	
	9	a,b,c,f,g	1	0	0	1	0	0	0	1	1	0	0	1	
	NONE	h (Ext.)	1	0	1	0	1	1	1	1	1	1	1	1	
	•	h (Ext.)	1	0	1	1	1	1	1	1	1	1	1	0	
	NONE	g	1	1	0	0	1	1	1	1	1	1	1	0	
	NONE		1	1	0	1	1	1	1	1	1	1	1	1	
	NONE		1	1	1	0	1	1	1	1	1	1	1	1	
NONE		1	1	1	1	1	1	1	1	1	1	1	1		

The MC4339 can directly operate low-voltage lamp indicators. A four digit binary input is translated into combinations of the eight outputs. These combinations correspond to different illuminated segments of the seven-bar digit indicator. The input and output codes with their related numerical digits are shown in the diagram. The enable inputs can be used for automatic blanking.

**Features:**

- Address times < 45 ns
- Outputs sink 20 mA
- Output capacitance < 7.0 pF @ 1.5 V
- Wired OR capability to 64 memories

**ENABLE INPUT TRUTH TABLE (POSITIVE LOGIC)**

EE	a	b	c	d	e	f	g	h
0 0	1	1	1	1	1	1	1	1
0 1	1	1	1	1	1	1	1	1
1 0	1	1	1	1	1	1	1	1
1 1	FUNCTION ENABLED							

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