

DESCRIPTION

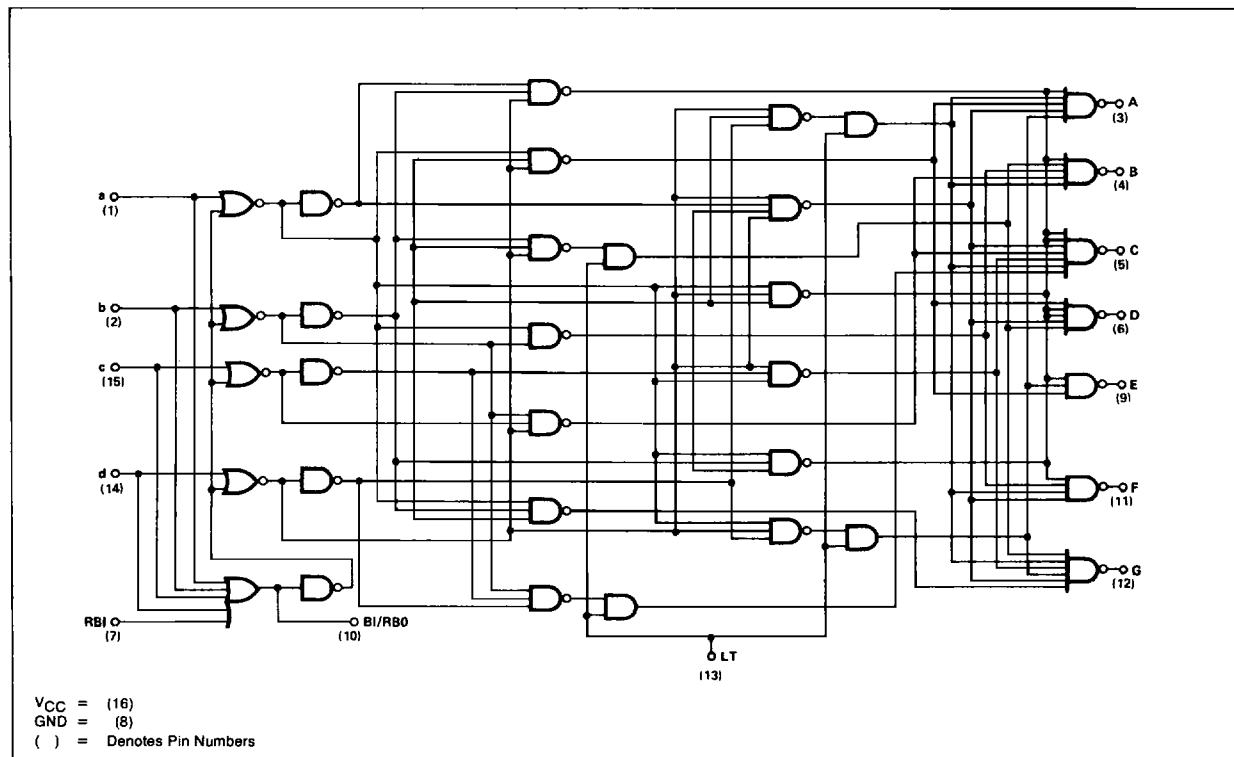
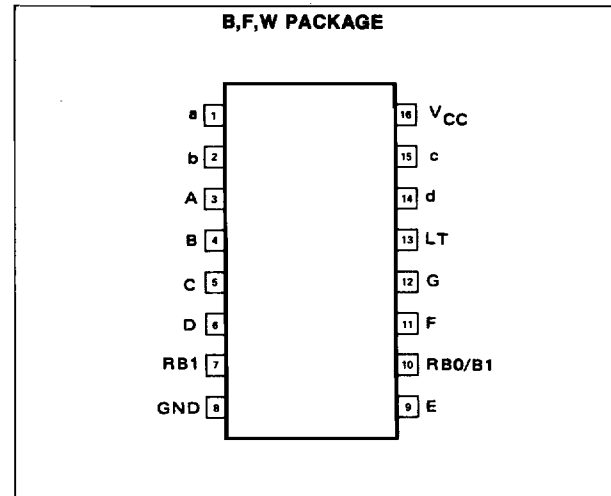
The 8T05 consists of the necessary logic to decode a 4-Bit BCD code to seven segment (0 through 9) readout as well as some selected signs and letters.

A Ripple Blanking input is provided to implement suppression of leading and/or trailing zeros. The suppression of all numerically insignificant zeros provides an easily read display.

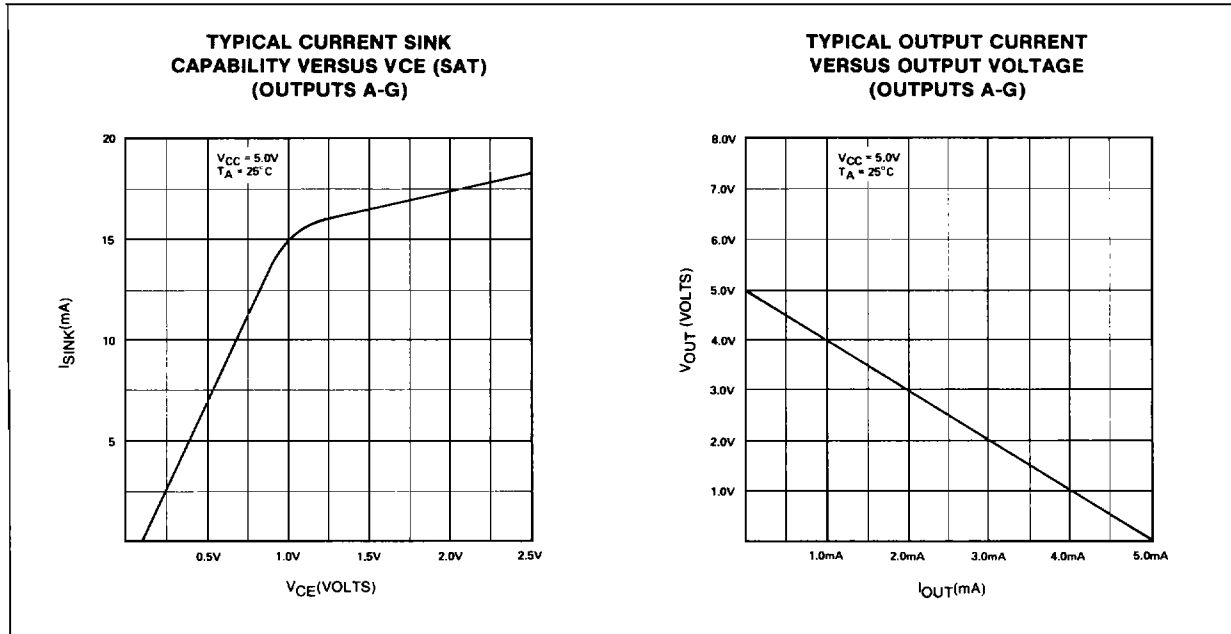
Incorporated in the Ripple Blanking output (BI/RBO) is the facility to ground all the outputs. Blanking of the outputs allows for intensity modulation.

A Lamp Test input is provided which, when grounded forces all segment outputs high. This allows the viewer to check the validity of the display presentation by testing the integrity of the lamps.

The 8T05 has resistor pullups on the outputs to provide source current sufficient to drive interfacing elements. This allows the unit to drive high voltage transistors for neon displays. The 8T05 can also be used to drive common cathode LED displays without the need for external resistors.

PIN CONFIGURATION

TYPICAL CHARACTERISTIC CURVES

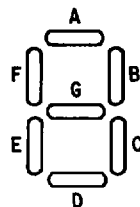


TRUTH TABLE

INPUTS				LAMP TEST	RBI	BI/RBO	OUTPUTS							DISPLAY CHARACTER
INPUT CODE							OUTPUT STATE							
d	c	b	a	LT		Note	A	B	C	D	E	F	G	
X	X	X	X	0	X	X	1	1	1	1	1	1	1	8
X	X	X	X	1	X	0 ^{1,2}	0	0	0	0	0	0	0	BLK
0	0	0	0	1	0	0 ²	0	0	0	0	0	0	0	BLK
0	0	0	0	1	1	1	1	1	1	1	1	1	0	0
0	0	0	1	1	X	1	0	1	1	0	0	0	0	1
0	0	1	0	1	X	1	1	1	0	1	1	0	1	2
0	0	1	1	1	X	1	1	1	1	1	0	0	1	3
0	1	0	0	1	X	1	0	1	1	0	0	1	1	4
0	1	0	1	1	X	1	1	0	1	1	0	1	1	5
0	1	1	0	1	X	1	0	0	1	1	1	1	1	6
0	1	1	1	1	X	1	1	1	1	0	0	0	0	7
1	0	0	0	1	X	1	1	1	1	1	1	1	1	8
1	0	0	1	1	X	1	1	1	1	0	0	1	1	9
1	0	1	0	1	X	1	0	0	0	0	0	0	1	1
1	0	1	1	1	X	1	0	0	0	0	0	0	0	BLK
1	1	0	0	1	X	1	1	1	1	0	1	1	1	0
1	1	0	1	1	X	1	0	0	1	0	0	0	0	1
1	1	1	0	1	X	1	0	0	0	1	1	1	0	1
1	1	1	1	1	X	1	0	0	0	0	0	0	0	BLK

X = Don't care, either "1" or "0".
BI/RBO is an internally wired OR output.

- NOTE:
- BI/RBO used as input.
 - BI/RBO should not be forced high when ab,c,d, RBI terminals are low, or damage may occur to the unit.



* COMMA