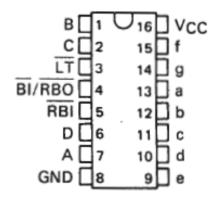
74LS47

BCD-TO-SEVEN SEGMENT DECORDER/DRIVER



Function Table

'46A, '47A, 'LS47 FUNCTION TABLE (T1)

DECIMAL	INPUTS						BI/RBO†	OUTPUTS							NOTE
FUNCTION	LT	RBI	D	С	В	Α		а	ь	С	d	е	f	g	
0	н	н	L	L	L	L	н	ON	ON	ON	ON	ON	ON	OFF	
1	н	×	L	L	L	н	н	OFF	ON	ON	OFF	OFF	OFF	OFF	
2	н	х	L	L	н	L	н	ON	ON	OFF	ON	ON	OFF	ON	
3	н	X	L	L	Н	н	н	ON	ON	ON	ON	OFF	OFF	ON	
4	н	X	L	н	L	L	н	OFF	ON	ON	OFF	OFF	ON	ON	
5	н	x	L	н	L	н	н	ON	OFF	ON	ON	OFF	ON	ON	
6	н	×	L	н	н	Ĺ	н	OFF	OFF	ON	ON	ON	ON	ON	
7	н	х	L	Н	н	н	н	ON	ON	ON	OFF	OFF	OFF	OFF	1
8	н	Х	,H	L	L	L	н	ON	ON	ON	ON	ON	ON	ON	' '
9	Н	X	н	L	L	н	н	ON	ON	ON	OFF	OFF	ON	ON	
10	н	X	н	L	н	i.	н	OFF	OFF	OFF	ON	ON	OFF	ON	
11	н	х	н	L	н	Н	н	OFF	OFF	ON	ON	OFF	OFF	ON	
12	Н	X	Н	н	L	L	н	OFF	ON	OFF	OFF	OFF	ON	ON	
13	н	×	н	н	L	н	н	ON	OFF	OFF	ON	OFF	ON	ON	
14	н	X	н	н	н	L	н	OFF	OFF	OFF	ON	ON	ON	ON	
15	н	X	H	н	Н	н	н	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
81	×	Х	X	×	X	X	L	OFF	OFF	OFF	OFF	OFF	OFF	OFF	2
RBI	н	L	L	L	L	L	L	OFF	OFF	OFF	OFF	OFF	OFF	OFF	3
LT	L	X	X	X	X	X	н	ON	ON	ON	ON	ON	ON	ON	4

H = high level, L = low level, X = irrelevant

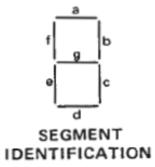
- NOTES: 1, The blanking input (BI) must be open or held at a high logic level when output functions 0 through 15 are desired. The
 - ripple-blanking input (RBI) must be open or high if blanking of a decimal zero is not desired.

 2. When a low logic level is applied directly to the blanking input (BI), all segment outputs are off regardless of the level of any other input.

 3. When ripple-blanking input (RBi) and inputs A, B, C, and D are at a low level with the lamp test input high, all segment outputs
 - go off and the ripple-blanking output (RBO) goes to a low level (response condition).

 4. When the blanking input/ripple blanking output (BI/RBO) is open or held high and a low is applied to the lamp-test input, all
 - segment outputs are on.

 $^{^{\}dagger}\overline{BI/RBO}$ is wire AND logic serving as blanking input (\$\overline{BI}\$) and/or ripple-blanking output (\$\overline{RBO}\$).





NUMERICAL DESIGNATIONS AND RESULTANT DISPLAYS