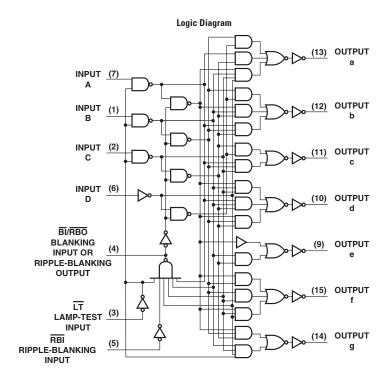
## **BCD-TO-SEVEN-SEGMENT DECODERS/DRIVERS**

- Open-Collector Outputs
- Lamp-Test Provision
- Leading/Trailing Zero Suppression



## **FUNCTION TABLE**

	INPUTS					+	OUTPUTS							
No.	LT	RBI	D	С	В	Α	BI/RBO <sup>T</sup>	а	b	С	d	е	f	g
0	Н	Н	L	L	L	L	Н	ON	ON	ON	ON	ON	ON	OFF
1	Н	X	L	L	L	Н	H	OFF	ON	ON	OFF	OFF	OFF	OFF
2	Н	Х	L	L	Н	L	H	ON	ON	OFF	ON	ON	OFF	ON
3	Н	Х	L	L	Н	Н	Н	ON	ON	ON	ON	OFF	OFF	ON
4	Н	Х	L	Н	L	L	Н	OFF	ON	ON	OFF	OFF	ON	ON
5	н	Х	L	н	L	Н	H	ON	OFF	ON	ON	OFF	ON	ON
6	Н	Х	L	Н	Н	L	H	OFF	OFF	ON	ON	ON	ON	ON
7	Н	Х	L	Н	Н	Н	Н	ON	ON	ON	OFF	OFF	OFF	OFF
8	Н	Х	Н	L	L	L	Н	ON						
9	Н	Х	Н	L	L	Н	H	ON	ON	ON	OFF	OFF	ON	ON
10	H	X	Н	L	Н	L	H	OFF	OFF	OFF	ON	ON	OFF	ON
11	Н	X	Н	L	Н	Н	H	OFF	OFF	ON	ON	OFF	OFF	ON
12	Н	Х	Н	Н	L	L	Н	OFF	ON	OFF	OFF	OFF	ON	ON
13	Н	Х	Н	Н	L	Н	H	ON	OFF	OFF	ON	OFF	ON	ON
14	Н	Х	Н	Н	Н	L	H	OFF	OFF	OFF	ON	ON	ON	ON
15	Н	Х	Н	Н	Н	Н	н	OFF						
BI	Х	Х	Х	Х	Х	Х	L	OFF						
RBI	н	L	L	L	L	L	L	OFF						
LT	L	Х	X	Х	X	Х	н	ON						

H = high level, L = low level, irrelevant NOTES: 1. The blanking input (Bi) must be open held at high logic level when output functions 0 through 15 are desired. The

- ripple-blanking input (RBI) must be open or high it blanking of a decimal zero is not desired.

  When a low logic level is applied directly to the blanking input (BI), all segment outputs are off regardless of the level of any
- 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 input/ripple blanking output (BI/RBI) is open or held high and a low is applied to the lamp-test input, all segment outputs are on.

## ELECTRICAL CHARACTERISTICS AND RECOMMENDED OPERATING CONDITIONS

PARAMETER	MAX or MIN	TTL	LS	UNIT
Icc	MAX	103	13	mΑ
Іон	MAX	-0.2	-0.05	mA
lou	MAX	8	3.2	mΑ

## TIMING REQUIREMENTS AND SWITCHING CHARACTERISTICS

THE REACTION OF THE CONTROL OF THE C										
PARAMETER	INPUT	OUTPUT	MAX or MIN	TTL	LS					
toff	A	A to g	MAX	100	100					
ton	A	A to g	MAX	100	100					
toff	RBI	A to g	MAX	100	100					
ton	RBI	A to g	MAX	100	100					

UNIT: ns

<sup>†</sup> BI/RBO is wire AND logic serving as blanking input (BI) and/or ripple-blanking output (RBI).