

No.843E

LB1240

Fluorescent Display Tube Driver

The LB1240 has been designed for interfacing low-level digital devices to fluorescent display tubes. Its 8-circuit independent Darlington output stage is used for digit and segment drivers. Equivalent pull-down resistors are built in; externally connected resistors to prevent ghosts are no longer required. Output is activated when input voltages are at a low level, making the IC an ideal interface for N-channel MOS devices.

FEATURES

- * 8 circuit independent Darlington driver.
- Capable of driving digits or segments.
- · Built-in pull-down sink current.
- Rated at 55 V/30 mA

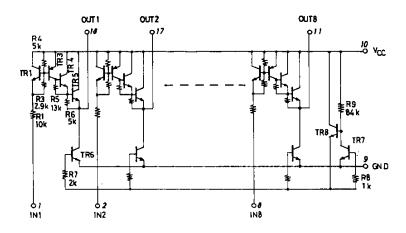
ABSOLUTE MAXIMUM RATINGS/	Ta = 25°C	;			u	nit	
Maximum power supply voltage	VCC ma		0.	3 ~ +55.0	0	V	
Output supply voltage	Vout		-0	.3 ~ V _C (2	V	
Input supply voltage	VIN	$V_{IN} > GND$	Vcc -	10 ~ V _C	2	V	
Maximum output current	IOUT			-30) r	nΑ	
Allowable power dissipation	P _d max			1.13	3	W	
Operating ambient temperature	Topr		-	20 ~ +7	5	°C	
Storage ambient temperature	T _{stg}		_4	0 ~ +150	ם '	°C	
ALLOWABLE OPERATING CON	DITIONS	S/T _a = 25°C			u	nit	
Power supply voltage	Vcc		4.	75 ~ 55.0)	V	
Input (H) level voltage	v_{iH}	V _{IN} > GND,	V _{CC} -10 ~	V _{CC} -2.	В	V	
		IOUT = -30 mA					
Input (L) level voltage	v_{IL}	$I_{OUT} \le -30\mu A$	V _{CC} -0	.45~V _C	2	V	
ELECTRICAL CHARACTERISTICS	S/T _a = 25°	°C, V _{CC} = 55 V		min	typ	max	unit
Power supply current	ІССН	All inputs, $V_{IN} = V_{CC}$	– 10 V		5.0	8.0	mΑ
	ICCL	All inputs open		0.3	1.0	1.6	mΑ
Output voltage	VOH	V _{IN} = V _{CC} 10 V, I _{OUT} = -30 mA	Vcc	V _{CC} - 2.0 V _{CC} -1.6			٧
	VOL	$V_{IN} = V_{CC} - 0.3 V$, $I_{OUT} = 0 \text{ mA}$				200	mV
Output leakage current	loL	$V_{IN} = V_{CC} - 0.3 V, V_{C}$)UT = 0.5 V	-30			μΑ
Pull-down current	IOPL	Vout = Vcc		0.2	0.4	1.0	mΑ
Input current	linh	$V_{IN} = V_{CC} - 10 V$		0.6	0.9	1.3	mA
	Package Dimensions 3007A-D18IC (unit: mm)			ممصد		С	
			A-D18IC			3	la la
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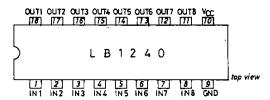
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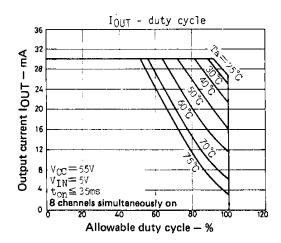
SANYO: DIP18

Equivalent circuit and pin assignment

Unit (resistance: Ω)







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