Ordering number: EN查询23(241 供应商

Monolithic Digital IC



NO.1173C

Fluorescent Display Tube Driver

The LB1241 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 and ideal interface for N-channel MOS devices.

- 8 circuit independent Darlington driver.
 Capable of driving digitals.
- Built-in pull-down sink current.
- Rated at 45 V/30 mA
- Large pull-down current and capable of preventing ghost effectively.

ABSOLUTE MAXIMUN	I RATINGS/T _a = 25°C
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Maximum power supply voltage	VCC max		−0.3 ~ 45	V
Output supply voltage	Vout		-0.3 ~ V _{CC}	٧
Input supply voltage	VIN	GND < VIN	V _{CC} − 10 ~ V _{CC}	V
Maximum output current	OUT	ask	-30	mΑ
Allowable power dissipation	P _d max		1130	mW
Operating temperature	Topr		−20 ~ +75	°C
Storage temperature	T _{stg}		−40 ~ +150	°C

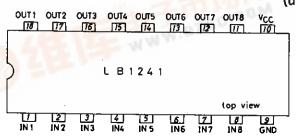
ALLOWABLE OPERATING CONDITIONS/Ta = 25°C

	a	_ _		
Supply voltage	Vcc		4.75 ~ 45	V
Input "H" level voltage	VIH	GND < VIN, IOUT = -30 mA	V _{CC} -10 ~ V _{CC} -2.8	V
Input "L" level voltage	VIL	Ιουτ≦ –30 μA	Vcc-0.45 ~ Vcc	V

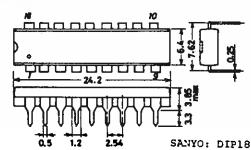
ELECTRICAL CHARACTERISTICS/Ta = 25°C. VCC =

		1111111	typ	HIAX	unit	
Supply current ICCI		All inputs: open	0.6	1.3	2.3	mΑ
	ICCH	All inputs: VIN = VCC - 5 V	7.0	10	16	mΑ
Output voltage	VoL	$V_{IN} = V_{CC} - 0.3 V$, $I_{OUT} = 0 mA$			200	mV
	Voh	VIN = VCC - 5 V, IOUT = -30 mA V	CC - 2.0 V	'CC - 1	.6	V
Pull-down current	IOPL	VOUT = VCC	0.6	1.0	1.8	mA
Input current	1IN1	VIN = VCC - 5V	0.2	0.4	0.6	mA
	IIN2	V _{IN} = V _{CC} - 10 V	0.6	0.9	1.3	mΑ
Output leakage current	IOL	V _{IN} = V _{CC} - 0.3 V, V _{OUT} = 0.5 V	-30			μΑ

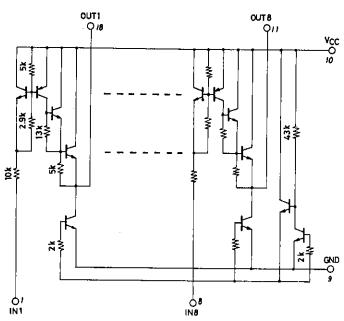
PIN ASSIGNMENT



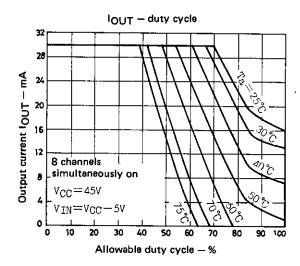
Package Dimensions 3007A-D18IC (unit: mm)



EQUIVALENT CIRCUIT



Unit (resistance: Ω)



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