

LB1291

0.25

3.85ma)

SANYO : DIP18

8-Channel Driver Array

[LB1291]

24.0

Package Dimensions

unit:mm

(1.84)

3007B-DIP18

Overview

The LB1291 has been designed for interfacing between low level digital devices and fluorescent display tubes. Its 8channel independent Darlington output stage is used for digit or segment drivers. Also, with pull-down equivalent resistors, no externally connected resistors are required for ghost prevention. When the input voltage is at a high level, the output gets activated.

Features

- 8-channel independent Darlington driver.
- Capable of driving digits or segments.
- On-chip sink current circuit for pull-down.
- 55V/30mA rating.

Specifications

Absolute Maximum Ratings at $Ta = 25^{\circ}C$

Parameter Symbol Conditions Ratings Unit -0.3 to +55.0 Maximum supply voltage V_{CC} max V Output supply voltage -0.3 to V_{CC} V VOUT -0.3 to +20.0 V Input supply voltage VIN mΑ Maximum output current 30 lout Allowable power dissipation W Pd max 1.13 °C -20 to +75 Operating temperature Topr -40 to +150 °C Storage temperature Tstg

Allowable Operating Ranges at $Ta = 25^{\circ}C$

Parameter	Symbol	Conditions	Ratings	Unit
Supply voltage	VCC		4.75 to 55.0	V
Input high-level voltage	V_{H}	I _{OUT} =-30mA	4.0 to 20.0	V
Input low-level voltage	VIL	I _{OUT} ≤–30µA	-0.3 to +0.3	V

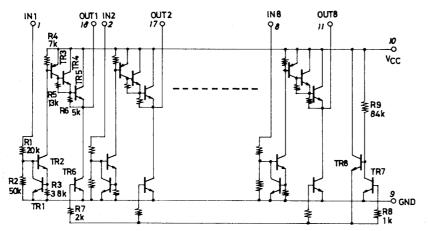
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Electrical Characteristics at $Ta = 25^{\circ}C$, $V_{CC}=55V$

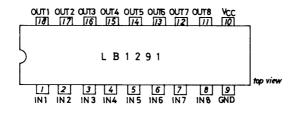
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
Current drain	ІССН	All inputs, V _{IN} =10V		6.0	10.0	mA
	ICCL	All inputs open	0.3	1.0	1.6	mA
Output voltage	VOH	V _{IN} =10V, I _{OUT} =-30mA	V _{CC} -2.0	V _{CC} -1.6		V
	VOL	V _{IN} =0.3V, I _{OUT} =0mA			200	mA
Output leakage current	IOL	V _{IN} =0.3V, V _{OUT} =0.5V	-30			μA
Pull-down current	IOPL	V _{OUT} =V _{CC}	0.2	0.4	1.0	mA
Input current	I _{IN1}	V _{IN} =20V	0.6	1.0	1.4	mA
	I _{IN2}	V _{IN} =10V	0.3	0.5	0.7	mA
	I _{INL}	V _{IN} =0V	-30			μA

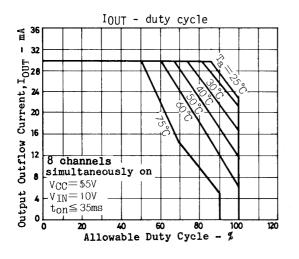
Equivalent Circuit



Unit (resistance: $\boldsymbol{\Omega}$)

Pin Assignment





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