



8-Channel Driver Array

Overview

The LB1290 has been designed for interfacing between low level digital devices and fluorescent display tubes. Its 8-channel 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°C

[LB1290]
24.0
18 000000000000000000000000000000000000
9.03
(1.84) 2.54 0.5 1.2
SANYO : DIP18

Package Dimensions

unit:mm

3007B-DIP18

Parameter	Symbol	Conditions	Ratings	Unit
Maximum supply voltage	V _{CC} max		-0.3 to +55.0	V
Output supply voltage	V _{OUT}		–0.3 to V _{CC}	V
Input supply voltage	V _{IN}		-0.3 to +20.0	V
Maximum output current	IOUT		30	mA
Allowable power dissipation	Pd max		1.13	W
Operating temperature	Topr		–20 to +75	°C
Storage temperature	Tstg		-40 to +150	°C

Allowable Operating Ranges at Ta = 25°C

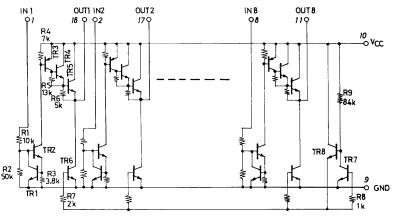
Parameter	Symbol	Conditions	Ratings	Unit
Supply voltage	Vcc		4.75 to 55.0	V
Input high-level voltage	V _{IH}	I _{OUT} =-30mA	2.6 to 20.0	V
Input low-level voltage	V _{IL}	I _{OUT} ≤–30μA	-0.3 to +0.3	V

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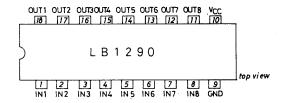
Electrical Characteristics at Ta = 25°C, $V_{CC}=55V$

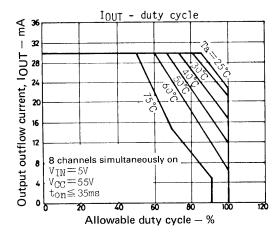
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offiit
Supply current	Іссн	All inputs, V _{IN} =10V		6.0	10.0	mA
	ICCL	All inputs open	0.3	1.0	1.6	mA
Output voltage	Vон	V _{IN} =10V, I _{OUT} =–30mA	V _{CC} -2.0	V _{CC} -1.6		V
	VOL	V _{IN} =0.3V, I _{OUT} =0mA			200	mV
Output leakage current	loL	V _{IN} =0.3V, V _{OUT} =0.5V	-30			μΑ
Pull-down current	IOPL	V _{OUT} =V _{CC}	0.2	0.4	1.0	mA
Input current	I _{IN1}	V _{IN} =10V	0.6	0.9	1.3	mA
	I _{IN2}	V _{IN} =5V	0.2	0.4	0.6	mA
	I _{INL}	V _{IN} =0V	-30			μΑ

Equivalent Circuit and Pin Assignment



Unit (resistance: Ω)





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