LB1292



6-Channel Driver Array

Overview

The LB1292 is designed for interfacing low level devices with fluorescent display tube. 6 independent Darlington output stages can be used to driver digits or segments. With pull-down equivalent resistor built in, no external resistor to prevent ghost is required. When input voltage is at low level, output becomes active.

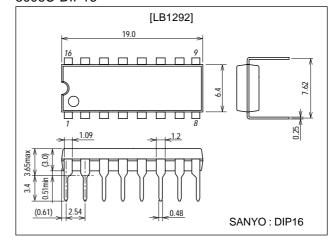
Features

- 6 independent Darlington drivers.
- Capable of driving digits or segments.
- On-chip sink current circuit for pull-down.
- Rated at 55V/25mA.

Package Dimensions

unit:mm

3006C-DIP16



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Maximum supply voltage	V _{CC} max		-0.3 to +55.0	V
Output supply voltage	Vout		−0.3 to V _{CC}	V
Input supply voltage	V _{IN}		-0.3 to +20.0	V
Maximum output current	lout		30	mA
Allowable power dissipation	Pd max		960	mW
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

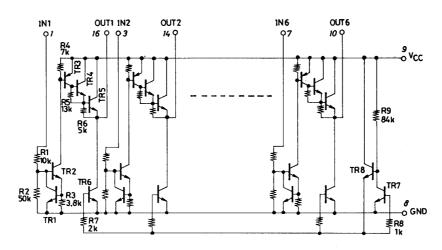
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Electrical Characteristics at Ta = 25°C, $V_{CC}=55V$

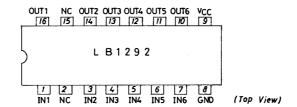
Parameter	Symbol	Conditions	Ratings			Unit
Farameter			min	typ	max	Offic
Current drain	ICCH	All inputs, V _{IN} =10V		5.0	8.0	mA
Current drain	ICCL	All inputs open	0.3	1.0	1.6	mA
Output voltage	VOH	V _{IN} =10V, I _{OUT} =–30mA	V _{CC} -2.0	V _{CC} -1.6		V
Output voltage	V _{OL}	V _{IN} =0.3V, I _{OUT} =0mA			200	mV
Output leakage current	loL	V _{IN} =0.3V, V _{OUT} =0.5V	-30			μA
Pull-down current	I _{OPL}	V _{OUT} =V _{CC}	0.2	0.4	1.0	mA
	I _{IN1}	V _{IN} =10V	0.6	0.9	1.3	mA
Input current	I _{IN2}	V _{IN} =5V	0.2	0.4	0.6	mA
	I _{INL}	V _{IN} =0V	-30			μΑ

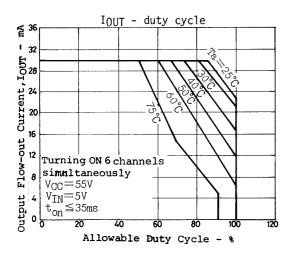
Equivalent Circuit

Unit (resistance: Ω)



Pin Assignment





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