

SANYO

NO.842F

LB1290**8-Channel Driver Array**

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
- 55 V/30 mA rating

ABSOLUTE MAXIMUM RATINGS/ $T_a = 25^\circ\text{C}$

			unit
Maximum power supply voltage	$V_{CC\ max}$	-0.3 ~ +55.0	V
Output supply voltage	V_{OUT}	-0.3 ~ V_{CC}	V
Input supply voltage	V_{IN}	-0.3 ~ +20.0	V
Maximum output current	I_{OUT}	30	mA
Allowable power dissipation	$P_{d\ max}$	1.13	W
Operating ambient temperature	T_{opr}	-20 ~ +75	$^\circ\text{C}$
Storage ambient temperature	T_{stg}	-40 ~ +150	$^\circ\text{C}$

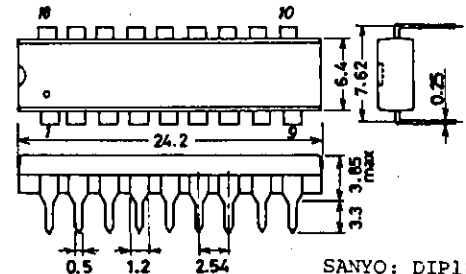
ALLOWABLE OPERATING CONDITIONS/ $T_a = 25^\circ\text{C}$

Supply voltage	V_{CC}	4.75 ~ 55.0	V
Input H level voltage	V_{IH}	$I_{OUT} = -30\ \text{mA}$ 2.6 ~ 20.0	V
Input L level voltage	V_{IL}	$I_{OUT} \leq -30\ \mu\text{A}$ -0.3 ~ +0.3	V

ELECTRICAL CHARACTERISTICS/ $T_a = 25^\circ\text{C}$, $V_{CC} = 55\ \text{V}$

			min	typ	max	unit
Supply current	I_{CCH}	All inputs, $V_{IN} = 10\ \text{V}$		6.0	10.0	mA
	I_{CCL}	All inputs open	0.3	1.0	1.6	mA
Output voltage	V_{OH}	$V_{IN} = 10\ \text{V}$, $I_{OUT} = -30\ \text{mA}$	$V_{CC} - 2.0$	$V_{CC} - 1.6$		V
	V_{OL}	$V_{IN} = 0.3\ \text{V}$, $I_{OUT} = 0\ \text{mA}$			200	mV
Output leakage current	I_{OL}	$V_{IN} = 0.3\ \text{V}$, $V_{OUT} = 0.5\ \text{V}$	-30			μA
Pull-down current	I_{OPL}	$V_{OUT} = V_{CC}$	0.2	0.4	1.0	mA
Input current	$I_{IN(1)}$	$V_{IN} = 10\ \text{V}$	0.6	0.9	1.3	mA
	$I_{IN(2)}$	$V_{IN} = 5\ \text{V}$	0.2	0.4	0.6	mA
	I_{INL}	$V_{IN} = 0\ \text{V}$	-30			μA

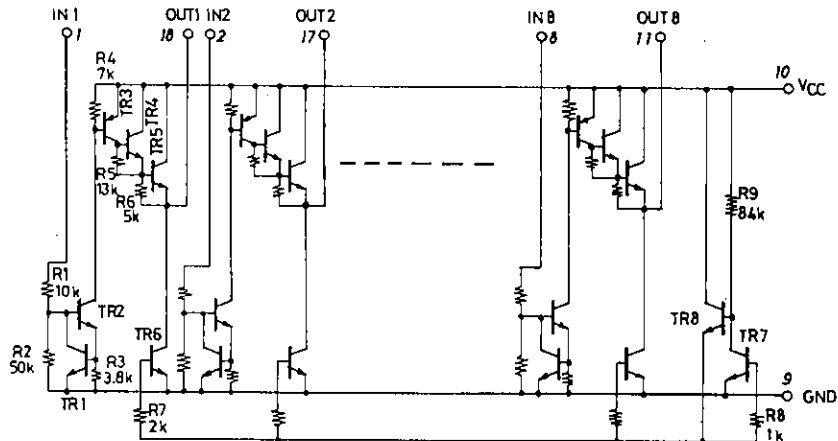
Package Dimensions 3007A-D18IC
(unit : mm)



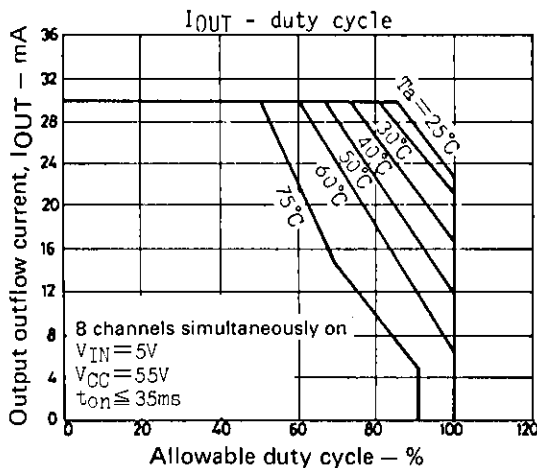
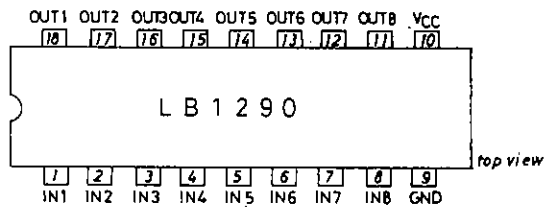
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EQUIVALENT CIRCUIT AND PIN ASSIGNMENT



Unit (resistance: Ω)



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