Ordering number: EN 1044C

Monolithic Digital IC

NO.1044C

LB1291

8-Channel Driver Array

The LB1291 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

Absolute Maximum Ratings at Ta=25°C

			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	I_{OUT}	30	mA
Allowable Power Dissipation	Pdmax	1.13	W
Operating Temperature	Topr	-20 to +75	°C
Storage Temperature	Tstg	-40 to +150	°C

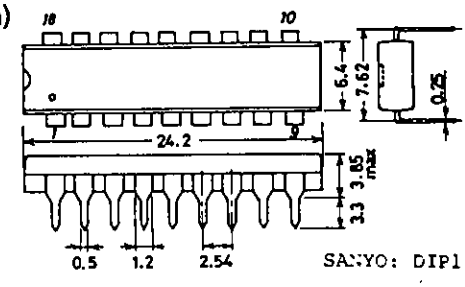
Allowable Operating Conditions at Ta=25°C

				unit
Supply Voltage	V_{CC}		4.75 to 55.0	V
Input "H" Level Voltage	V_{IH}	I_{OUT}≦-30mA	4.0 to 20.0	V
Input "L" Level Voltage	V_{IL}	I_{OUT}≦-30μA	-0.3 to +0.3	V

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

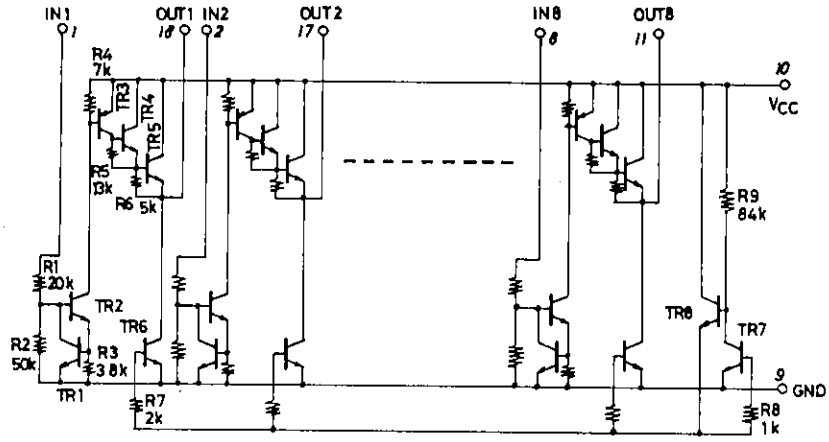
			min	typ	max	unit
Current Dissipation	I_{CCH}	All inputs, V_{IN}=10V		6.0	10.0	mA
	I_{CCL}	All inputs open	0.3	1.0	1.6	mA
Output Voltage	V_{OH}	V_{IN}=10V, I_{OUT}=-30mA	V_{CC}-2.0	V_{CC}-1.6		V
	V_{OL}	V_{IN}=0.3V, I_{OUT}=0mA			200	mA
Output Leakage Current	I_{OL}	V_{IN}=0.3V, V_{OUT}=0.5V	-30			μA
Pull-down Current	I_{OPL}	V_{OUT}=V_{CC}	0.2	0.4	1.0	mA
Input Current	$I_{IN(1)}$	V_{IN}=20V	0.6	1.0	1.4	mA
	$I_{IN(2)}$	V_{IN}=10V	0.3	0.5	0.7	mA
	I_{INL}	V_{IN}=0V	-30			μA

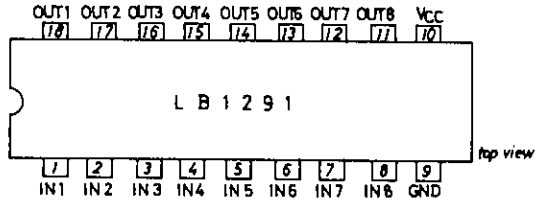
Package Dimensions 3007A-D18IC
(unit : mm)

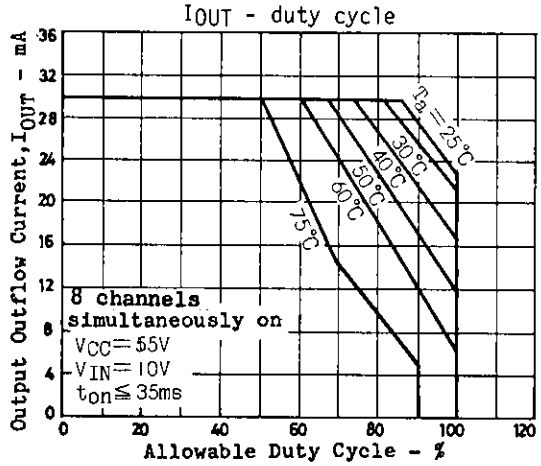


Equivalent Circuit and Pin Assignment

Unit (resistance: Ω)







- No products described or contained herein are intended for use in surgical implants, life-support systems, aerospace equipment, nuclear power control systems, vehicles, disaster/crime-prevention equipment and the like, the failure of which may directly or indirectly cause injury, death or property loss.
- Anyone purchasing any products described or contained herein for an above-mentioned use shall:
  ① Accept full responsibility and indemnify and defend SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors and all their officers and employees, jointly and severally, against any and all claims and litigation and all damages, cost and expenses associated with such use:
  ② Not impose any responsibility for any fault or negligence which may be cited in any such claim or litigation on SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors or any of their officers and employees jointly or severally.
- Information (including circuit diagrams and circuit parameters) herein is for example only; it is not guaranteed for volume production. SANYO believes information herein is accurate and reliable, but no guarantees are made or implied regarding its use or any infringements of intellectual property rights or other rights of third parties.