

SANYO

NO.1045C

LB1293**6-Channel Driver Array**

The LB1293 has been designed for interfacing between low level digital devices and fluorescent display tubes. Its 6-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

- . 6-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

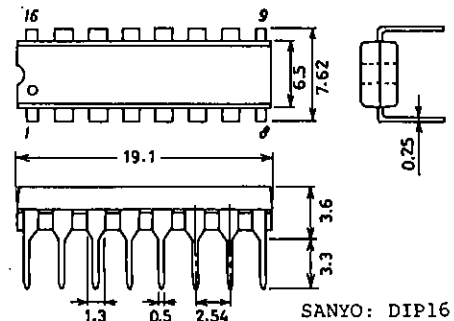
			unit
Maximum Supply Voltage	V_{CCmax}	-0.3 to +55.0	V
Output Supply Voltage	V_{OUT}	-0.3 to V_{CC}	V
Input Supply Voltage	V_{IN}	-0.3 to +20.0	V
Maximum Output Current	I_{OUT}	30	mA
Allowable Power Dissipation	P_{dmax}	960	W
Operating Temperature	T_{opr}	-20 to +75	°C
Storage Temperature	T_{stg}	-40 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}	$I_{OUT} \leq -30mA$ 4.0 to 20.0	V
Input "L" Level Voltage	V_{IL}	$I_{OUT} \geq -30\mu A$ -0.3 to +0.3	V

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

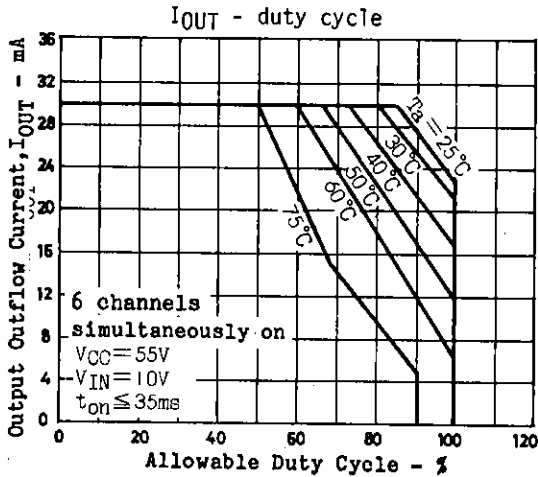
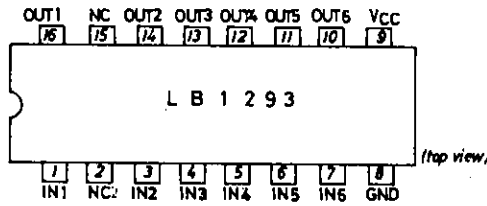
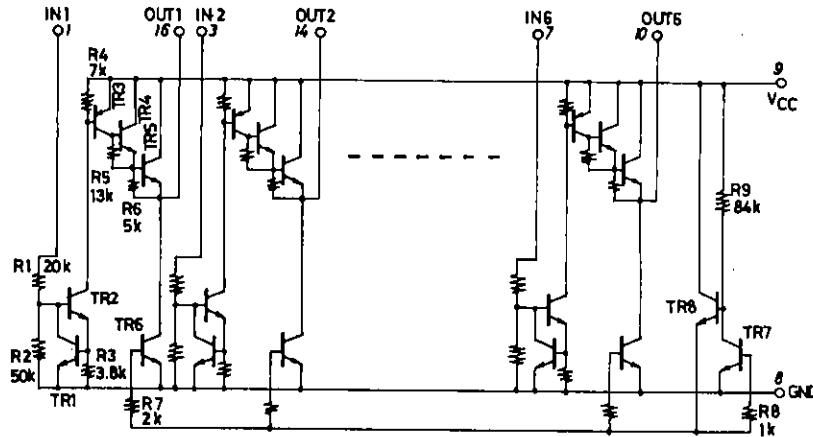
			min	typ	max	unit
Current Dissipation	I_{CCH}	All inputs, $V_{IN}=10V$		5.0	8.0	mA
	I_{CCL}	All inputs open	0.3	1.0	1.6	mA
Output Voltage	V_{OH}	$V_{IN}=10V, I_{OUT}=-30mA$	$V_{CC}-2.0$	$V_{CC}-1.6$		V
	V_{OL}	$V_{IN}=0.3V, I_{OUT}=0mA$			200	mA
Output Leakage Current	I_{QL}	$V_{IN}=0.3V, V_{OUT}=0.5V$	-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 3064-D16TR
(unit : mm)

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Equivalent Circuit and Pin Assignment

Unit (resistance: Ω)



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