Ordering number: EN 878D

Monolithic Digital IC

NO.878D

LB1292

6-Channel Driver Array

The LB1292 is designed for interfacing low level device with fluorescent display tube. 6 independent Darlington output stages can be used to drive 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

Absolute Maximum Ratings at T_a=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	$P_d$max	960	mW
Operating Temperature	Topr	-20 to +75	°C
Storage Temperature	Tstg	-40 to +150	°C

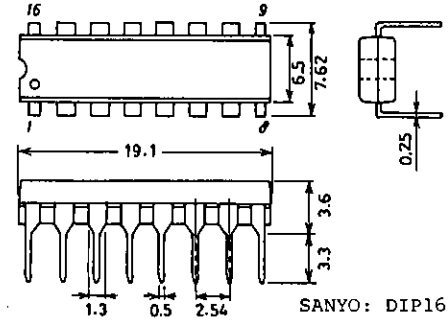
Allowable Operating Conditions at Ta=25°C

				unit
Supply Voltage	V_{CC}		4.75 to 55.0	V
Input "H" Level Voltage	V_{IH}	I_{OUT}=-30mA	2.6 to 20.0	V
Input "L" Level Votlage	V_{IL}	I_{OUT}≦-30μA	-0.3 to +0.3	V

Electrical Characteristics at T_a=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	mV
Output Leak 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}=10V	0.6	0.9	1.3	mA
	$I_{IN(2)}$	V_{IN}=5V	0.2	0.4	0.6	mA
	I_{INL}	V_{IN}=0V	-30			μA

Package Dimensions 3064-D16TR
(unit : mm)



SANYO: DIP16

SANYO Electric Co.,Ltd. Semiconductor Business Headquarters
TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110 JAPAN

Equivalent Circuit and Pin Assignment

Unit (resistance: Ω)