Ordering number:ENN1163C

Monolithic Digital IC

LB1294

6-Channel Driver Array

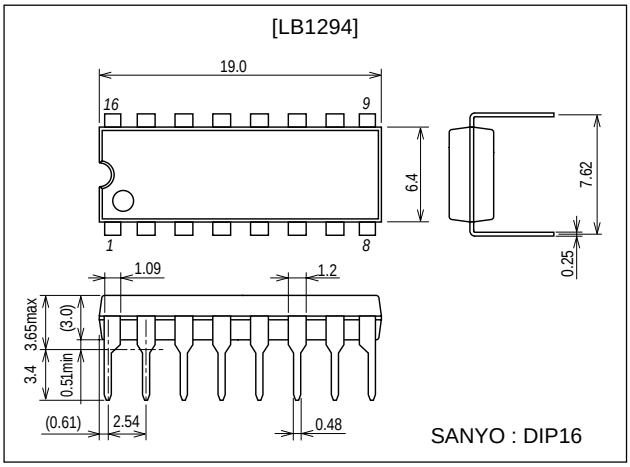
Features

- 6 independent Darlington drivers.
- High voltage (60V), high output source current (60mA).
- Ideally suited for interface between different supply voltage systems.
- Wide duty cycle.
- Best applicable to system of 5V supply voltage.

Package Dimensions

unit:mm

3006C-DIP16



Specifications

Absolute Maximum Ratings at Ta = 25˚C

Parameter	Symbol	Conditions	Ratings	Unit
Maximum supply voltage	V_{CC}	V_{CC}-Sub	–0.3 to +60	V
Output supply voltage	V_{OUT}	OUT-Sub	–0.3 to V_{CC}	V
V_{EE} voltage range	V_{EE}	V_{EE}-V_{CC} (Sub≤V_{EE}≤V_{CC})	0 to 30	V
Input supply voltage	V_{IN}	IN-V_{EE} (V_{IN}≤V_{CC})	0 to 30	V
Output current	I_{OUT}		0 to 60	mA
Allowable power dissipation	Pd max		960	mW
Operating temperature	Topr		–20 to +75	˚C
Storage temperature	Tstg		–40 to +150	˚C

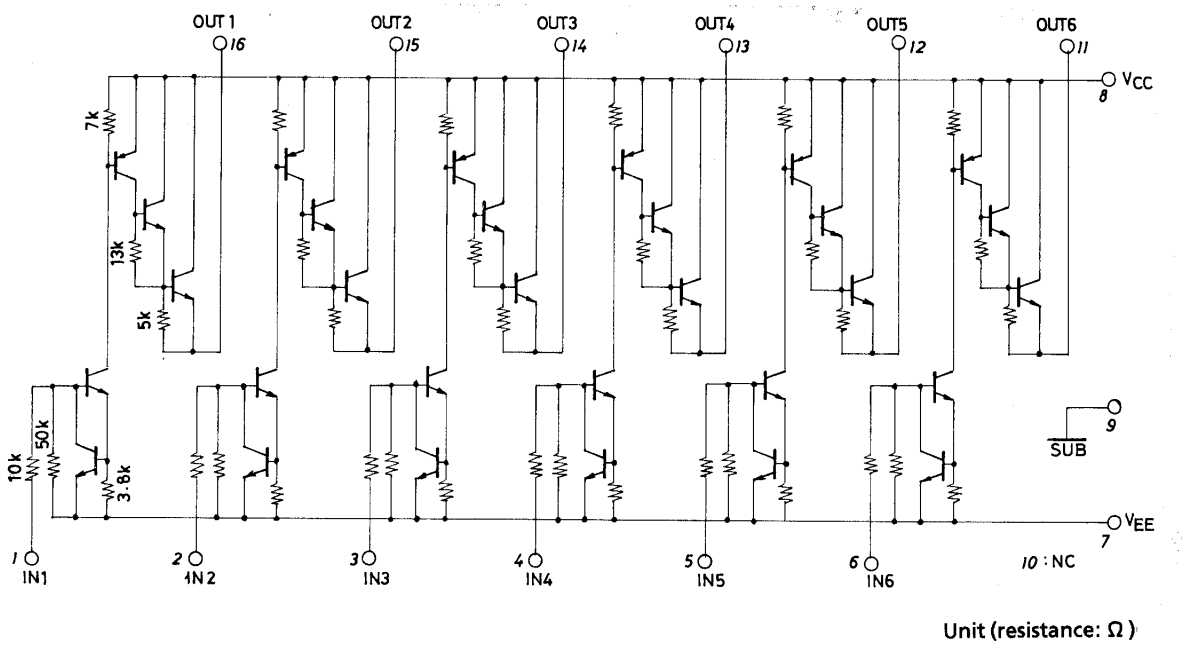
Allowable Operating Ranges at Ta = 25˚C

Parameter	Symbol	Conditions	Ratings	Unit
Supply voltage	V_{CC}		4.5 to 60	V
Input high-level voltage	V_{IH}	I_{OUT}=–60mA	V_{EE}+2.2 to V_{EE}+30	V
Input low-level voltage	V_{IL}	I_{OUT}≤–100µA	V_{EE}–0.3 to V_{EE}+0.4	V

Electrical Characteristics at Ta = 25°C, Vsub=–45V, V_{EE}=0V, V_{CC}=15V

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Output voltage	V_{OH1}	V_{IN}=10V, I_{OUT}=–30mA	V_{CC}–2.0	V_{CC}–1.6		V
	V_{OH2}	V_{IN}=10V, I_{OUT}=–60mA	V_{CC}–2.6	V_{CC}–1.9		V
Output leakage current	I_{OL}	V_{IN}=0.4V, V_{OUT}=–45V	–100			μA
Input current	I_{IH1}	V_{IN}=10V	0.6	0.9	1.3	mA
	I_{IH2}	V_{IN}=5V	0.2	0.4	0.6	mA
	I_{IL}	V_{IN}=0V	–30			μA
Supply current	I_{CCH}	Each input V_{IN}=10V			3.0	mA
	I_{CCL}	Each input open			100	μA

Equivalent Circuit and Pin Assignment



Unit (resistance: Ω)