Ordering number:ENN2631B

Monolithic Digital IC

LB1720

Thermal Head-Use, 8-Channel, Transistor Array

Overview

The LB1720 is an 8-channel transistor array that has a low output saturation voltage and can be driven by a CMOS IC. It is especially suited for use in thermal head, LED drive applications.

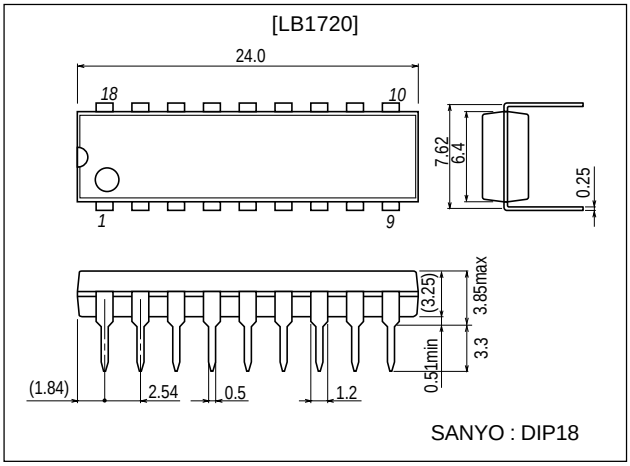
Features

- Common-emitter 8-channel transistor array.
- Low output saturation voltage (0.15V typ I_O=100mA).
- On-chip base current limiting resistors.
- Capable of being operated directly by TTL, CMOS IC.

Package Dimensions

unit:mm

3007B-DIP18



Specifications

Absolute Maximum Ratings at Ta = 25˚C

Parameter	Symbol	Conditions	Ratings	Unit
Output supply voltage	V_{OUT}		–0.5 to +18	V
Output current	I_{OUT}	1 unit	200	mA
Input voltage	V_{IN}		–0.5 to +20	V
GND Pin current	I_{GND}		900	mA
Allowable power dissipation	Pd max		900	mW
Operating temperature	Topr		–20 to +75	˚C
Storage temperature	Tstg		–40 to +125	˚C

Electrical Characteristics at Ta = 25˚C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Output voltage	V_{OL1}	I_O=100mA, V_{IN}=4.5V	0.1	0.15	0.3	V
	V_{OL2}	I_O=100mA, V_{IN}=4.5V, I_O (other ch) =800mA	0.1	0.2	0.3	V
Output leakage current	I_{OH}	V_{IN}=0V, V_O=18V			10	µA
Input ON-state current	$I_{IN(on)}$	V_{IN}=5.5V		1.0	1.6	mA
Input ON-state voltage	$V_{IN(on)}$	I_O=20mA	2.0			V
Input OFF-state voltage	$V_{IN(off)}$	I_O=10µA			0.4	V

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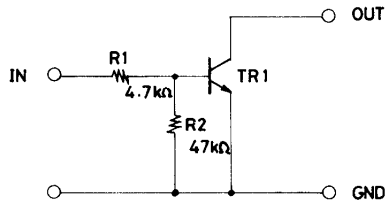
Equivalent Circuit (1 channel)



Equivalent Circuit Block Diagram