Monolithic Digital IC



NO.2631B

LB1720

Thermal Head-Use, 8-Channel, Transistor Array

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.

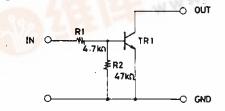
Features

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

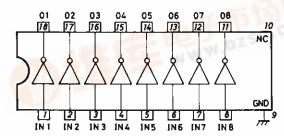
Absolute Maximum Ratings at Ta	=25 ⁰ C			unit
Output Supply Voltage	v_{OUT}	-0.5	to 18	V
Output Current		nit	200	mA
Input Voltage	VIN	-0.5	to 20	V
GND Pin Current	T		900	mA
Allowable Power Dissipation	Pd max		900	mW
Operating Temperature	Topr	-20 t	0 +75	°C
Storage Temperature	Tstg	-40 to	+125	οС

Electrical Characteristics	at Ta=25	°c	min	typ	max	unit
Output Voltage	V _{OL1}	Io=100mA, V _{TN} =4.5V	0.1	0.15	0.3	V
	V _{OL2}	Io=100mA, V _{IN} =4.5V Io(other ch)=800mA	0.1	0.2	0.3	CO A
Output Leakage Current	IOH	V _{TN} =0V, Vo=18V			10	μA
Input ON-State Current		V _{IN} =5.5V		1.0	1.6	mA
Input ON-State Voltage	VIN(on)	Io=20mA	2.0			V
Input OFF-State Voltage	VIN(off)	1ο <u>≤</u> 10μA			0.4	V

Equivalent Circuit (1 channel)

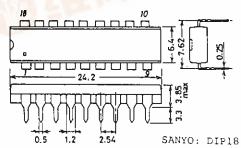


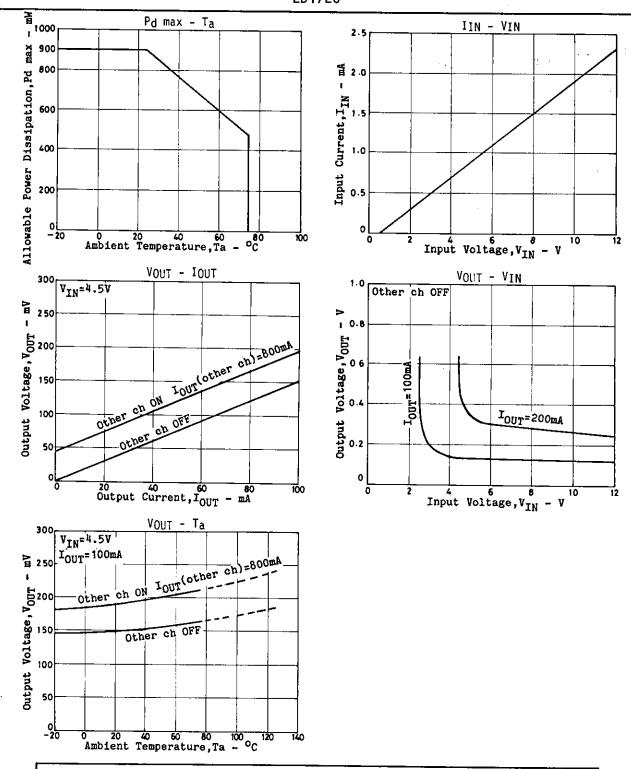
Equivalent Circuit Block Diagram



Note: Do not use NC pin.

Package Dimensions 3007A-D18IC (unit: mm)





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