



# LB1721M

## Thermal Head-Use, 8-Channel Transistor Array

### Overview

The LB1721M 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.
- On-chip base current limiting resistors.
- Capable of being operated directly by TTL, CMOS IC.
- Miniflat package.

### Specifications

#### Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$

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	$P_d \text{ max}$		465	mW
Operating temperature	$T_{opr}$		-20 to +75	$^\circ\text{C}$
Storage temperature	$T_{stg}$		-40 to +125	$^\circ\text{C}$

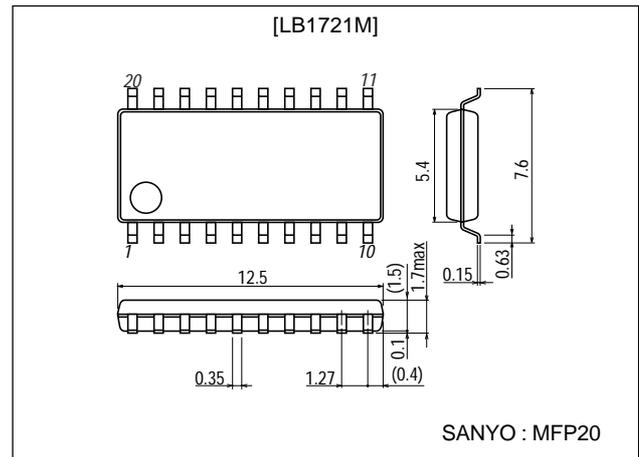
#### Electrical Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Output voltage	$V_O$	$V_{OL1} : I_O=100\text{mA}, V_{IN}=4.5\text{V}$	0.1	0.18	0.3	V
		$V_{OL2} : I_O=100\text{mA}, V_{IN}=4.5\text{V}, I_O=800\text{mA}$ (other ch)	0.1	0.27	0.4	V
Output leakage current	$I_{OH}$	$V_{IN}=0\text{V}, V_O=18\text{V}$			10	$\mu\text{A}$
Input ON-state current	$I_{IN(on)}$	$V_{IN}=5.5\text{V}$		1.0	1.6	mA
Input ON-state voltage	$V_{IN(on)}$	$I_O=20\text{mA}$	2.0			V
Input OFF-state voltage	$V_{IN(off)}$	$I_O \leq 10\mu\text{A}$			0.4	V

### Package Dimensions

unit:mm

3036C-MFP20

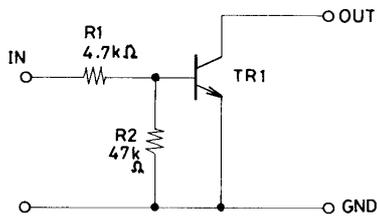


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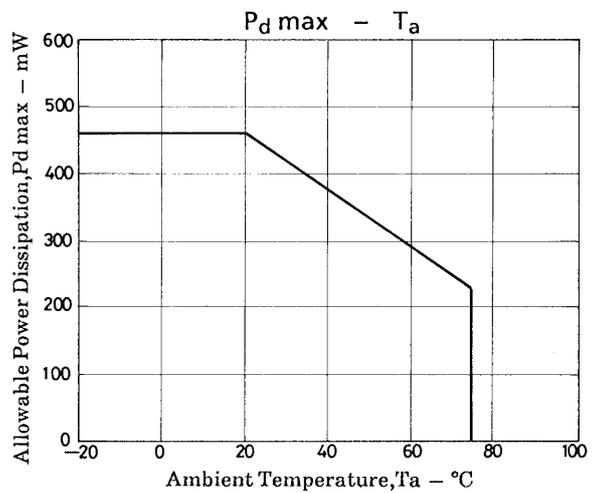
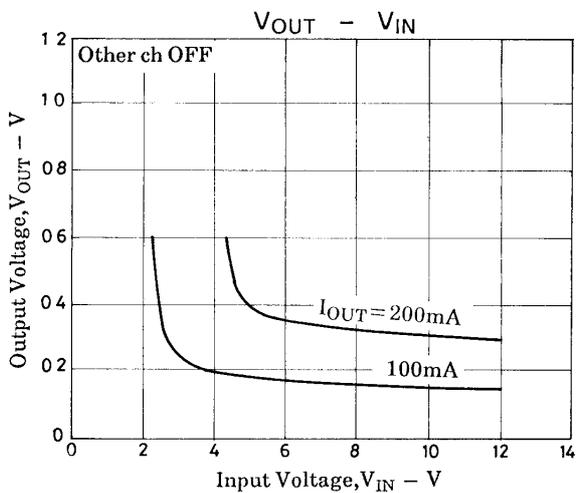
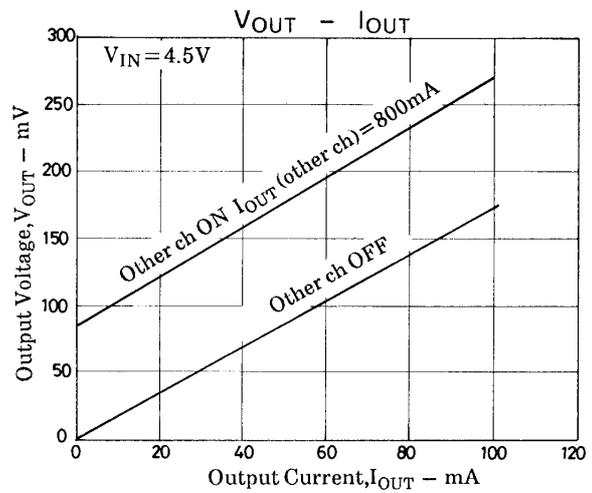
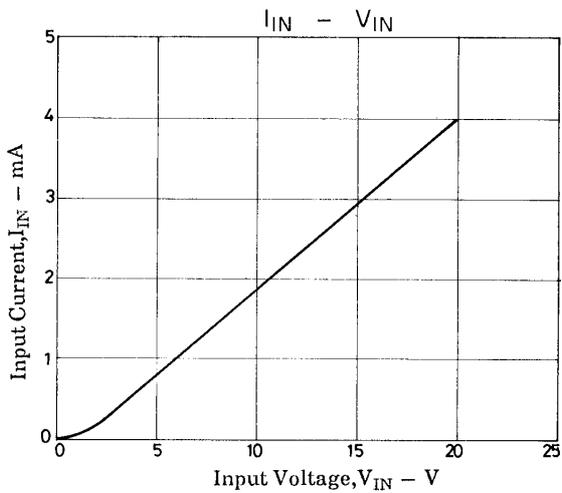
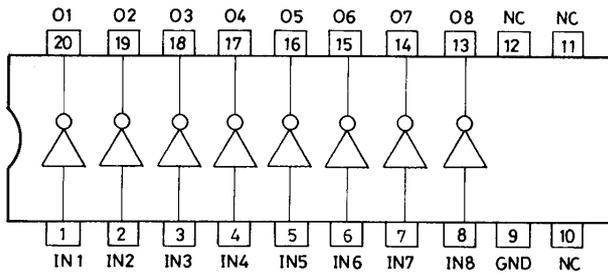
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# LB1271M

## Equivalent Circuit (1 channel)



## Pin Assignment



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