



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

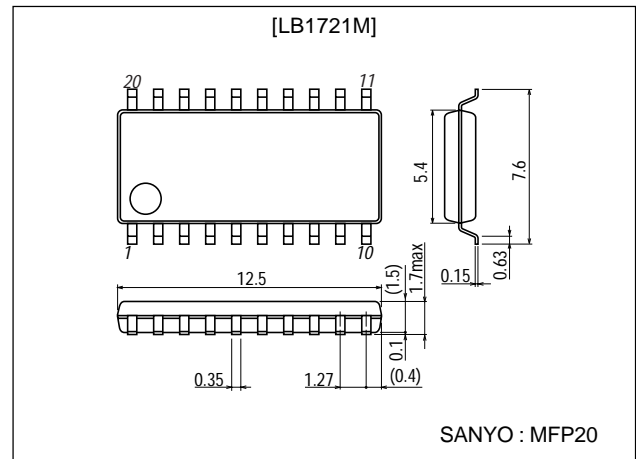
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Package Dimensions

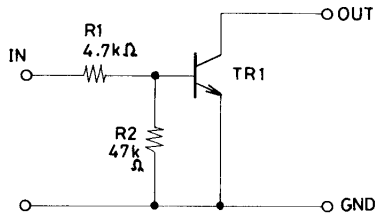
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3036C-MFP20

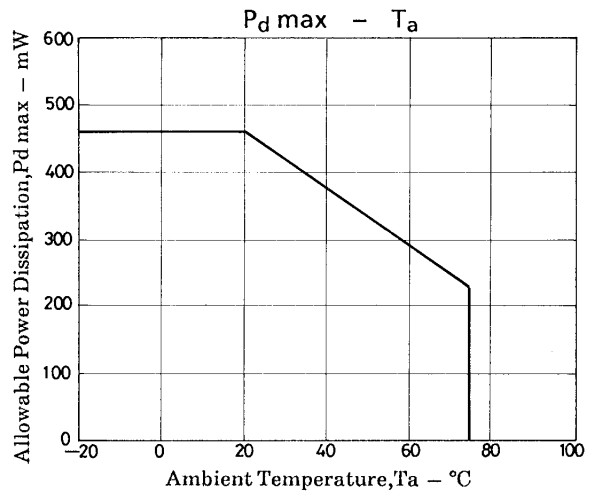
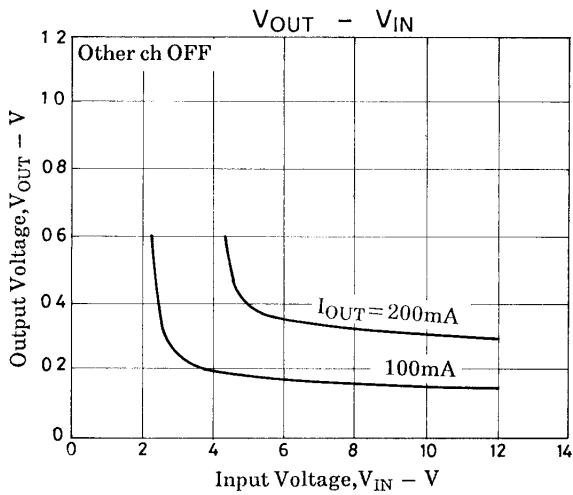
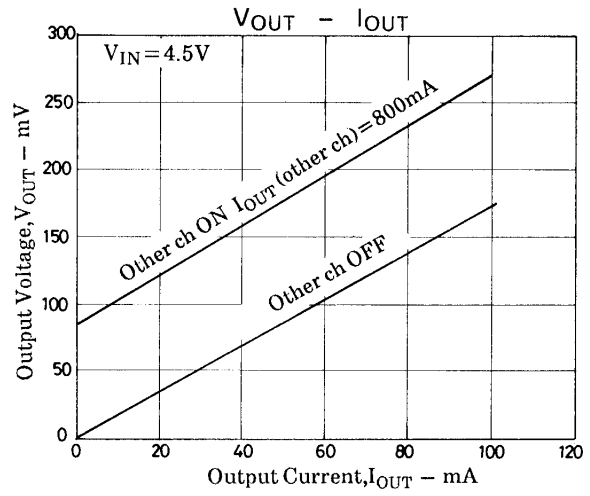
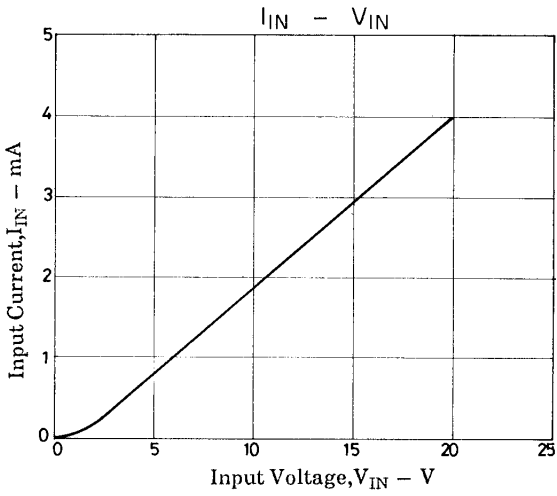
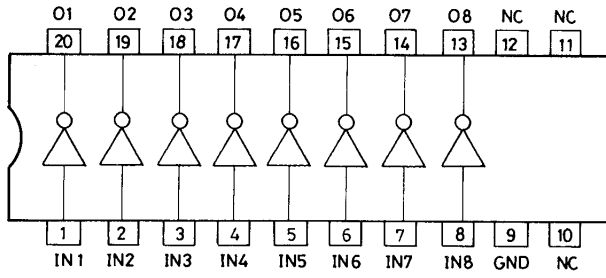


LB1271M

Equivalent Circuit (1 channel)



Pin Assignment



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