



LB1256

Printer Driver

Overview

The LB1256 is a 7-unit driver array, possessing high-current, low-saturating outputs. It has a motor driver circuit equipped with a brake circuit. It is suited for low-voltage, high-current driver use.

Features

- Has a large current capacity (400mA) and low saturation voltage (0.5V max).
- Has a motor driver with a spark suppressor.
- Ideal for various battery-operated preprinter drivers.

Specifications

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

Parameter	Symbol	Conditions	Ratings	Unit
Maximum supply voltage	$V_{CC\ max}$		-0.3 to +7.0	V
Maximum supply voltage	V_{OUT}		-0.3 to +10.0	V
Input supply voltage	V_{IN}		-0.3 to +7.0	V
Maximum output current	I_{OUT}	Per unit : pulse width<35ms	400	mA
Maximum forward current	I_{FSM}	Spark suppressor diode, pulse width≤35ms, 5% duty	700	mA
GND pin flow-out current	I_{GND}	Pulse width<35ms	3000	mA
Instantaneous current drain	I_{CCP}	Pulse width<35ms, 5% duty	700	mA
Allowable power dissipation	$P_d\ max$	$T_a=55^\circ\text{C}$	700	mW
Operating temperature	T_{opr}		-20 to +75	$^\circ\text{C}$
Storage temperature	T_{stg}		-40 to +125	$^\circ\text{C}$

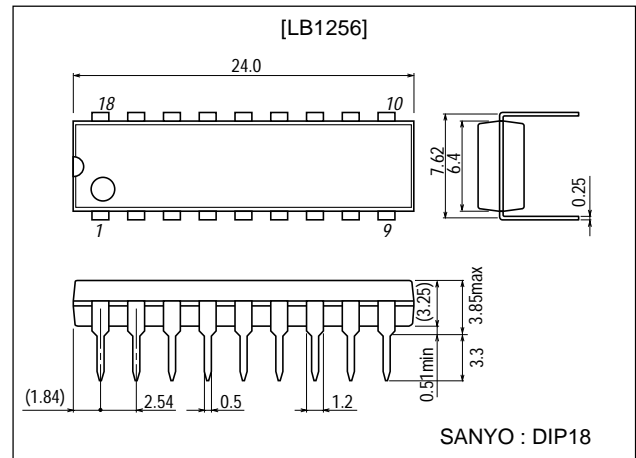
Allowable Operating Ranges at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings	Unit
Supply voltage	V_{CC}		2.0 to 6.0	V
Input H-level voltage	V_{IH}	$I_{OUT}=150\text{mA}$	2.0 to 7.0	V
Input L-level voltage	V_{IL}	$I_{OUT}=100\mu\text{A}$	-0.3 to +0.7	V

Package Dimensions

unit:mm

3007B-DIP18



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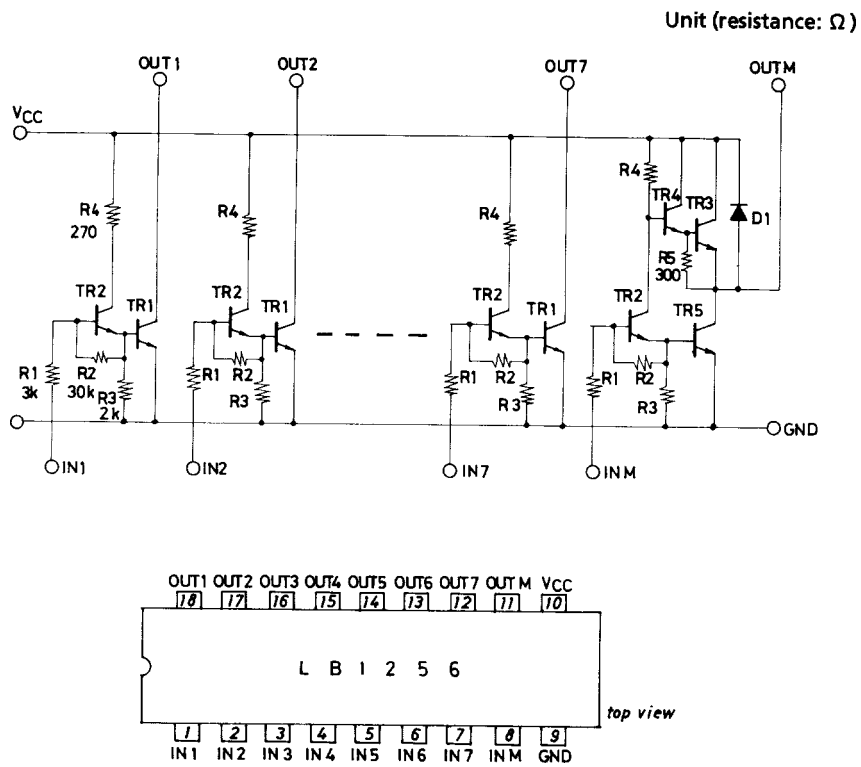
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LB1256

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Output voltage	V _{OUT1}	V _{IN} =2.0V, V _{CC} =2.0V, I _{OUT} =150mA			0.3	V
	V _{OUT2}	V _{IN} =3.0V, V _{CC} =3.5V, I _{OUT} =200mA			0.25	V
	V _{OUT3}	V _{IN} =5.5V, V _{CC} =6.0V, I _{OUT} =400mA			0.50	V
Output sustain voltage	V _{Osus}	V _{IN} : open, I _{OUT} =400mA, <10μs	10			V
Output leakage current	I _{off}	V _{IN} =0.7V, V _{CC} =6V			100	μA
Input current	I _{IN}	V _{IN} =6.0V, I _{OUT} =0			2.5	mA
Spark suppressor diode forward voltage	V _{F(S)}	I _{F(S)} =400mA			3.0	V

Equivalent Circuit and Pin Assignment



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