

LB1256M

Printer Driver

Overview

The LB1256M is a 7-unit driver array possessing high-current, low-saturation outputs. It has a motor driver circuit equipped with a brake circuit. It is suited for low-voltage, high-current drivers.

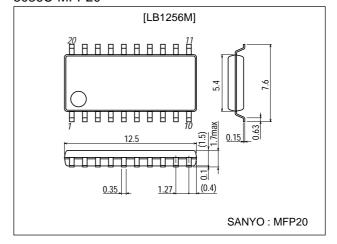
Features

- Large current capacity (400mA) and low saturation voltage (0.5V max).
- Motor driver with a spark killer.
- Suited for various battery-operated printer drivers.

Package Dimensions

unit:mm

3036C-MFP20



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Maximum supply voltage	V _{CC} max		-0.3 to +7.0	V
Output supply voltage	Vout		-0.3 to +10.0	V
Input supply voltage	VIN		-0.3 to +7.0	V
Maximum output current	lout	Per unit	560	mA
Spark killer diode forward current	I _{FSM}	Pulse width≤35ms, duty=5%	700	mA
GND pin flow-out current	I _{GND}		*3.4	Α
Instantaneous current drain	ICCP	Pulse width<35ms, duty 5%	700	mA
Allowable power dissipation	Pd max		370	mW
Operating temperature	Topr		-20 to +75	°C
Storage temperature	Tstg		-40 to +125	°C

^{*:} Both pins 1 and 10 must be grounded.

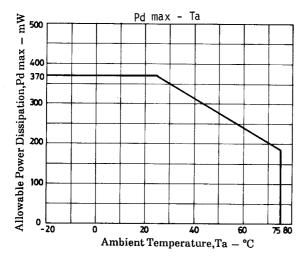
Allowable Operating Ranges at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Supply voltage	Vcc		2.0 to 6.0	V
Input H-level voltage	VIH	I _{OUT} =150mA	2.0 to 7.0	V
Input L-level voltage	V _{IL}	I _{OUT} ≤100μA	-0.3 to +0.7	V

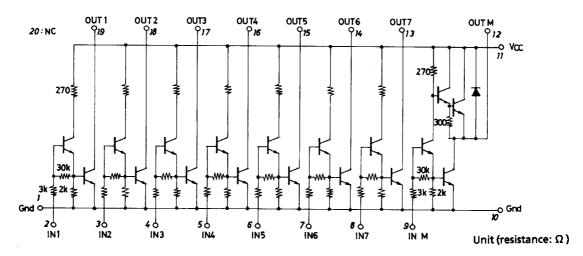
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Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Output voltage	V _{OUT1}	V _{IN} =V _{CC} =2.0V, I _{OUT} =150mA			0.30	V
	V _{OUT2}	V_{IN} =3.0V, V_{CC} =3.5V, I_{OUT} =200mA			0.25	V
	V _{OUT3}	V _{IN} =3.5V, V _{CC} =5.0V, I _{OUT} =450mA			0.60	٧
Output sustain voltage	V _{O(sus)}	I _{OUT} =400mA	10			V
Input current	I _{IN}	V _{IN} =6.0V			2.5	mA
Output leakage current	loff	V _{IN} =0.7V, V _{CC} =V _{OUT} =6.0V			100	μA
Spark killer diode forward voltage	V _{Fs}	I _{FS} =400mA			3.0	V



Equivalent Circuit



LB1256M

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