



The LA1256 is a 7-units 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

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

ABSOLUTE MAXIMUM RATINGS/ $T_a = 25^\circ\text{C}$

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

ALLOWABLE OPERATING CONDITIONS/ $T_a = 25^\circ\text{C}$

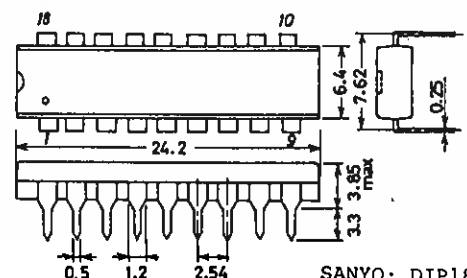
Parameter	Symbol	Condition	Value	unit
Supply voltage	V_{CC}		2.0 ~ 6.0	V
Input H level voltage	V_{IH}	$I_{OUT} = 150$ mA	2.0 ~ 7.0	V
Input L level voltage	V_{IL}	$I_{OUT} = 100$ μA	-0.3 ~ +0.7	V

ELECTRICAL CHARACTERISTICS/ $T_a = 25^\circ\text{C}$

Parameter	Symbol	Condition	min	typ	max	unit
Output voltage	V_{OUT1}	$V_{IN} = 2.0$ V, $V_{CC} = 2.0$ V, $I_{OUT} = 150$ mA			0.3	V
	V_{OUT2}	$V_{IN} = 3.0$ V, $V_{CC} = 3.5$ V, $I_{OUT} = 200$ mA			0.25	V
	V_{OUT3}	$V_{IN} = 5.5$ V, $V_{CC} = 6.0$ V, $I_{OUT} = 400$ mA			0.50	V
Output sustaining voltage	V_{0sus}	V_{IN} : open, $I_{OUT} = 400$ mA, < 10 μs	10			V

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Package Dimensions 3007A-D18IC (unit : mm)



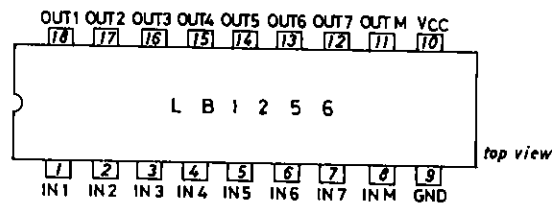
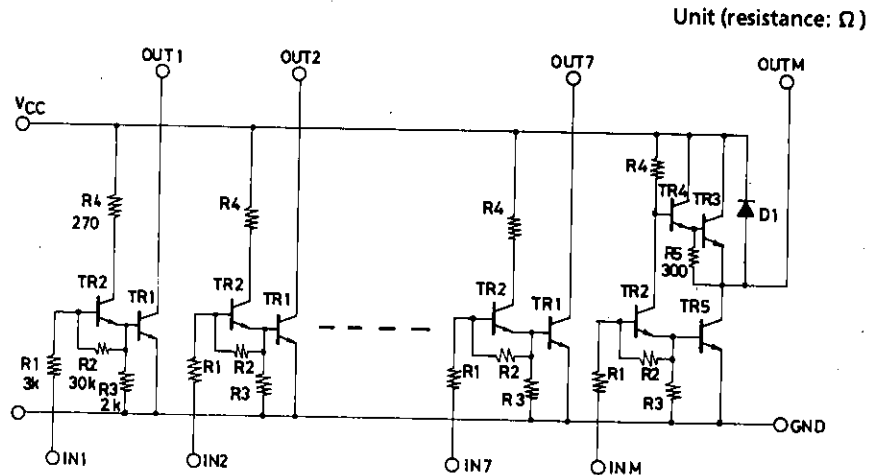
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			min	typ	max	unit
Output leakage current	I_{off}	$V_{IN} = 0.7 \text{ V}, V_{CC} = 6 \text{ V}$			100	μA
Input current	I_{IN}	$V_{IN} = 6.0 \text{ V}, I_{OUT} = 0$			2.5	mA
Spark suppressor diode forward voltage	$V_{F(s)}$	$I_F(s) = 400 \text{ mA}$			3.0	V

EQUIVALENT CIRCUIT AND PIN ASSIGNMENT



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