

SANYO

NO.1620C

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 spark killer
- Suited for various battery-operated printer drivers

Absolute Maximum Ratings at Ta = 25°C

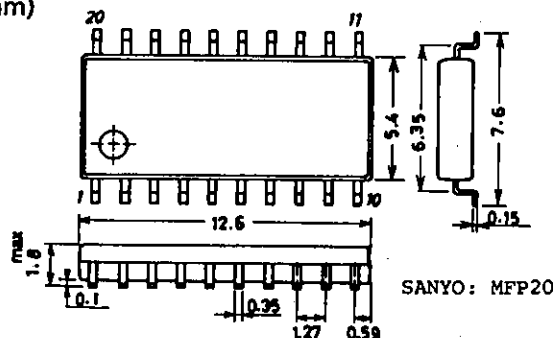
| | | | unit |
|-----------------------------------|---------------------|-------------------------------|--------|
| Maximum Supply Voltage | V _{CC} max | -0.3 to +7.0 | V |
| Output Supply Voltage | V _{OUT} | -0.3 to +10.0 | V |
| Input Supply Voltage | V _{IN} | -0.3 to +7.0 | V |
| Maximum Output Current | I _{OUT} | Per unit | 560 mA |
| Spark Killer Diode | I _{FSM} | Pulse width ≤ 35ms, duty = 5% | 700 mA |
| Forward Current | | | |
| GND Pin Flow-Out Current | I _{GND} | | *3.4 A |
| Instantaneous Current Dissipation | I _{CCP} | Pulse width ≤ 35ms, duty = 5% | 700 mW |
| Allowable Power Dissipation | P _d max | | 370 mW |
| Operating Temperature | T _{opr} | -20 to +75 | °C |
| Storage Temperature | T _{stg} | -40 to +125 | °C |

* : Both pins 1 and 10 must be grounded.

Allowable Operating Range at Ta = 25°C

| | | | unit |
|-------------------------|-----------------|--------------------------|----------------|
| Supply Voltage | V _{CC} | 2.0 to 6.0 | V |
| Input 'H'-Level Voltage | V _{IH} | I _{OUT} = 150mA | 2.0 to 7.0 V |
| Input 'L'-Level Voltage | V _{IL} | I _{OUT} ≤ 100μA | -0.3 to +0.7 V |

Package Dimensions 3036B-M20IC
(unit : mm)



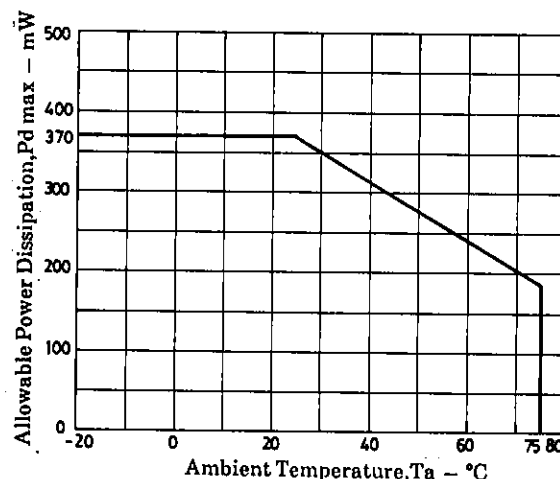
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O3095YK/ 1090TA / 8207AT / 3285MW, TS No.1620-1/2

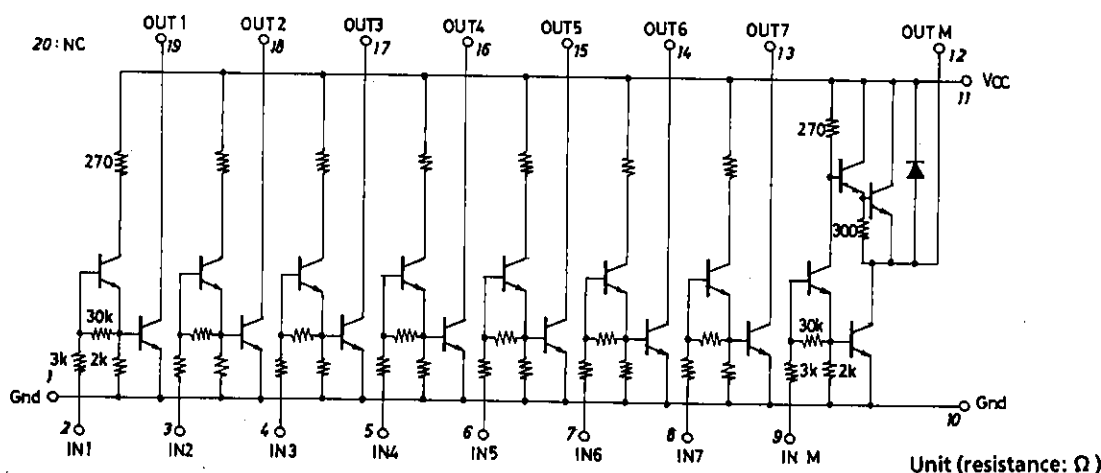
LB1256M

Electrical Characteristics at Ta = 25°C

| | | | min | typ | max | unit |
|------------------------|---------------------|--|-----|-----|------|------|
| 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 | V |
| 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 | I _{OFF} | V _{IN} = 0.7V, V _{CC} = V _{OUT} = 6.0V | | | 100 | μA |
| Spark Killer Diode | V _{FS} | I _{FS} = 400mA | | | 3.0 | V |
| Forward Voltage | | | | | | |



Equivalent Circuit



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