

LB1258

7-Unit, Low-Saturation Driver

Overview

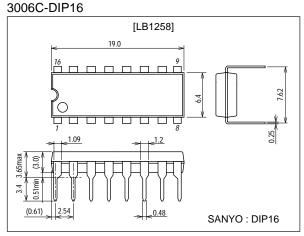
The LB1258 is a 7-unit driver array with large current, low saturation output. It is suited for low voltage, large current drivers.

Features

- Large current capacity (500mA) and low saturation voltage (0.65V max).
- Especially suited for battery-powered printer drivers of various types and general-purpose 7-unit large current & low saturation voltage drivers.

Package Dimensions

unit:mm



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 | IOUT | Per unit, pulse width≤35ms | 500 | mA |
| GND pin flow-out current | IGND | Pulse width≤35ms | 3000 | mA |
| Allowable power dissipation | Pd max | | 960 | mW |
| Operating temperature | Topr | | -20 to +75 | °C |
| Storage temperature | Tstg | | -40 to +125 | °C |

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

| Parameter | Symbol | Conditions | Ratings | Unit |
|-----------------------|--------|-------------------------|--------------|------|
| Supply voltage | VCC | | 2.5 to 6.0 | V |
| Input H-level voltage | VIH | I _{OUT} =150mA | 2.5 to 7.0 | V |
| Input L-level voltage | VIL | I _{OUT} ≤100µA | -0.3 to +0.7 | V |

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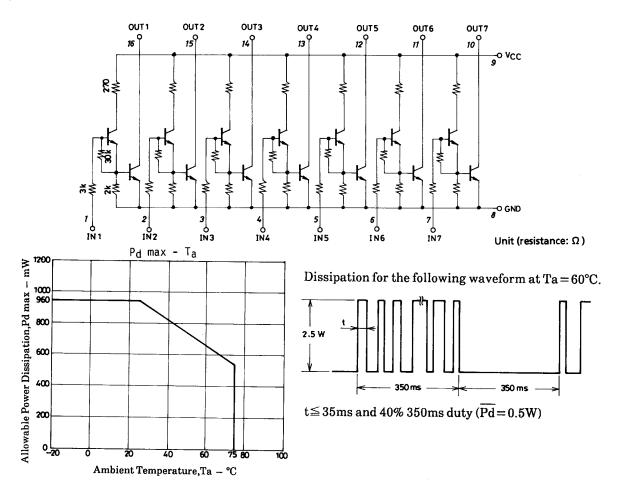
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22801TN (KT)/O3095YK/7079YT/8037KI/4055KI/2103KI/3182KI, TS No.1235-1/3

Electrical Characteristics at $Ta = 25^{\circ}C$

| Parameter | Symbol | Conditions | Ratings | | | Unit |
|-------------------------------|---------|---|---------|-----|------|------|
| i alametei | | | min | typ | max | |
| | VOUT1 | V _{IN} =3.0V, V _{CC} =3.5V, I _{OUT} =200mA | | | 0.25 | V |
| Output voltage | VOUT2 | V _{IN} =5.5V, V _{CC} =6.0V, I _{OUT} =400mA | | | 0.5 | V |
| | VOUT3 | V _{IN} =5.5V, V _{CC} =6.0V, I _{OUT} =500mA | | | 0.65 | V |
| Output sustain voltage | VO(SUS) | V _{IN} : open, I _{OUT} =400mA, t≤10µs | 10 | | | V |
| Supply+output leakage current | l(OFF) | V _{IN} =0.5V, V _{OUT} =V _{CC} =6.0V | | | 30 | μA |
| Input current | IIN | V _{IN} =6.0V, I _{OUT} =0 | | | 2.5 | mA |

Equivalent Circuit



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