

LB1258

7-Unit, Low-Saturation Driver

Overview

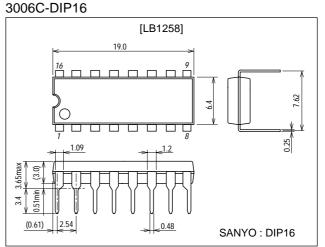
The LB1258 is a 7-unit driver array with large current, low saturation output. It is suited for low voltage, large current drivers.

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 $Ta = 25^{\circ}C$

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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, 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

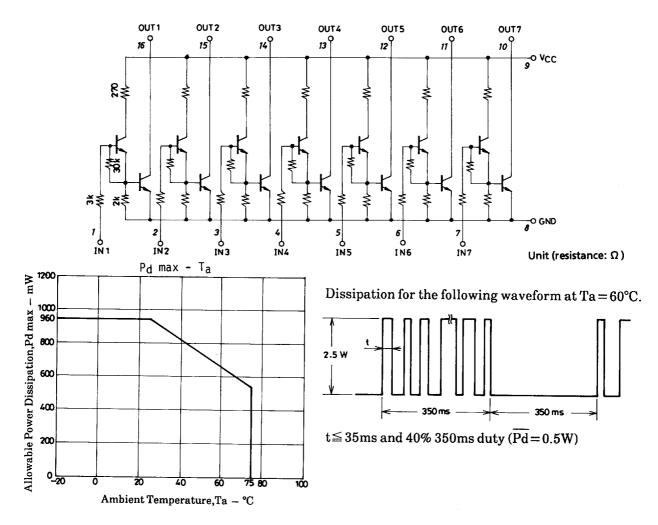
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Electrical Characteristics at $Ta = 25^{\circ}C$

Parameter	Symbol	Conditions	Ratings			Unit
i arameter			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
	V _{OUT3}	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	I _{IN}	V _{IN} =6.0V, I _{OUT} =0			2.5	mA

Equivalent Circuit



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