

LB1235

High-Voltage, High-Current Darlington Driver

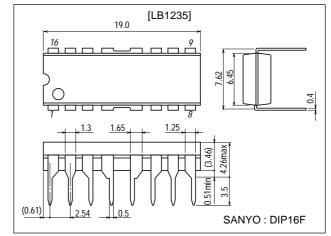
Fucntions and Features

- 4-channel, high-voltage (65V), high-current (1.5A) Darlington driver.
- On-chip spark killer diodes.
- Capable of being direct driven with 5V-operated TTL.
- NPN input high-active type.

Package Dimensions

unit:mm

3054B-DIP16F



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Maximum supply voltage	V _{CC} max		65	V
Output supply voltage	Vout		65	V
Input supply voltage	VIN		15	V
Output current	lout		1.5	А
Spark killer diode forward current	I _{F(S)}		1.5	Α
Allowable power dissipation	Pd max		1.9*	W
Operating temperature	Topr		-20 to +75	°C
Storage temperature	Tstg		-55 to +150	°C

^{*:} Mounted on the recommended printed circuit board: 2.6W

Allowable Operating Ranges at Ta = 25°C

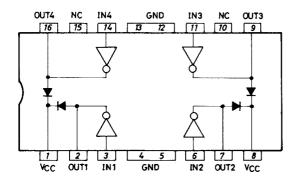
Parameter	Symbol	Conditions	Ratings	Unit
Output supply voltage	Vout		65	V
Input H-level voltage	V_{IH}	I _{OUT} =1.0A	2.0 to 15	V
Input L-level voltage	V_{IL}	I _{OUT} ≤30μA	-0.3 to +0.3	V

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Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	01111
Output saturation voltage	V _{O(sat1)}	V _{IN} =5.0V, I _{OUT} =0.5A			1.2	V
	V _{O(sat2)}	V _{IN} =5.0V, I _{OUT} =1.0A			1.5	V
	V _{O(sat3)}	V _{IN} =5.0V, I _{OUT} =1.5A			2.0	V
Output sustain voltage	V _{O(sus)}	I _{OUT} =100mA	65			V
Input current	In	V _{IN} =5.0V		11	15	mA
Spark killer diode forward voltage	V _{F(S)}	I _{F(S)} =1.5A			3.0	V
Spark killer diode reverse current	I _{R(S)}	V _{CC} =65V, V _{OUT} =0V			30	μΑ

Pin Assignment



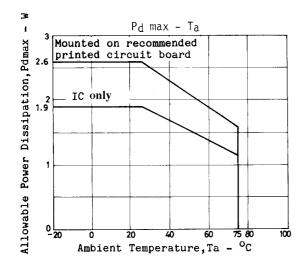
Equivalent Circuit

OUT1 OUT2 OUT3 OUT4

VCC

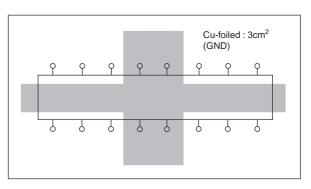
NO GND

IN1 IN2 IN3 IN4



$\begin{array}{cc} \textbf{Recommended Printed Circuit Pattern} \\ \textbf{(Bottom view)} & \textbf{Board (80\times60mm)}^2 \end{array}$

Unit (resistance: Ω)



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