

NO.1903D

LB1235

High-Voltage, High-Current Darlington Driver

Functions 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

Absolute Maximum Ratings at Ta	1=25 ⁰ C				unit
Maximum Supply Voltage	V _{CC} max			65	V
Output Supply Voltage	VOUT			65	v
Input Supply Voltage	V _{IN}			15	V
Output Current	IOUT			1.5	A
Spark Killer Diode Forward Current	IF(S)			1.5	A
Allowable Power Dissipation	Pdmax			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 Conditions at Ta=25°C

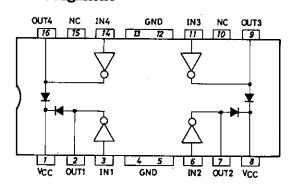
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Output Supply Voltage	v_{OUT}		65	v
Input "H" Level Voltage	VIH	Iour=1.0A	2.0 to 15	v
Input "L" Level Voltage	V _{TI} .	I _{OUT} Ę1.0A I _{OUT} Ę30µA	-0.3 to +0.3	_

Electrical Characteristics at Ta=25°C

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Output Saturation Voltage	Ulballi	V _{IN} =5.0V,I _{OUT} =0.5A			1.2	v
	Vo(sat2)	V _{IN} =5.0V,I _{OUT} =1.0A			1.5	v
	Vo(sat3)	V _{IN} =5.0v,I _{OUT} =1.5A			2.0	V

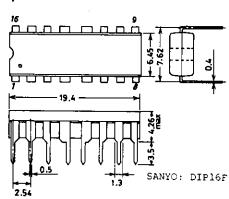
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Pin Assignment



(Note) V_{CC} (Pin 1 and 6) is shorted internally. Do not use NC pin.

Package Dimensions 3054A-D16FIC (unit: mm)

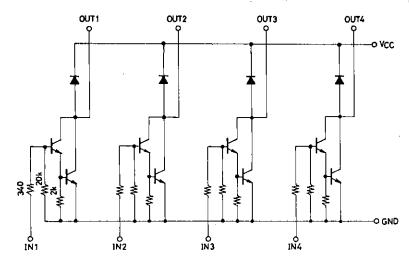


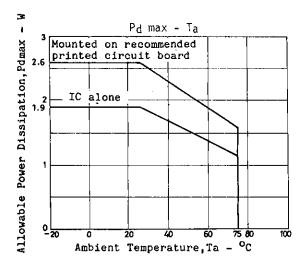
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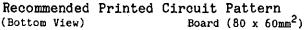
Output Sustain Voltage	Vo(sus)	I _{OUT} =100mA	<u>т</u> п	С у р	щах	unit
Input Current	¹ IN	V _{IN} =5.0V		11	15	mA
Spark Killer Diode Forward Voltage	V _{F(s)}	$I_{F(s)}^{-1.5A}$	**		3.0	V
Spark Killer Diode Reverse Current	I _{R(s)}	v _{CC} =65v, v _{OUT} =0v			30	μA

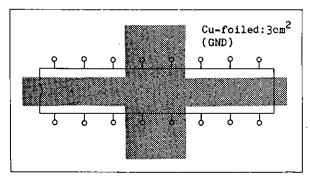
Equivalent Circuit

Unit (resistance: Ω)









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