

SANYO

No.1904B

**LB1206**

Monolithic Digital IC
HIGH-VOLTAGE,
HIGH-CURRENT DARLINGTON DRIVER

Functions and Features

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

Absolute Maximum Ratings at Ta=25°C

			unit
Maximum Supply Voltage	V_{DDmax}	7.0	V
	V_{CCmax}	62	V
Output Supply Voltage	V_{OUT}	65	V
Input Supply Voltage	V_{IN} $V_{IN} \geq GND$	$V_{DD}-7.0$ to V_{DD}	V
Output Current	I_{OUT}	1.5	A
Spark Killer Diode Forward Current	$I_{F(S)}$	1.5	A
Allowable Power Dissipation	P_{dmax}	1.9*	W
Operating Temperature	T_{opg}	-20 to +75	°C
Storage Temperature	T_{stg}	-55 to +150	°C

*Mounted on the recommended printed circuit board : 2.6W

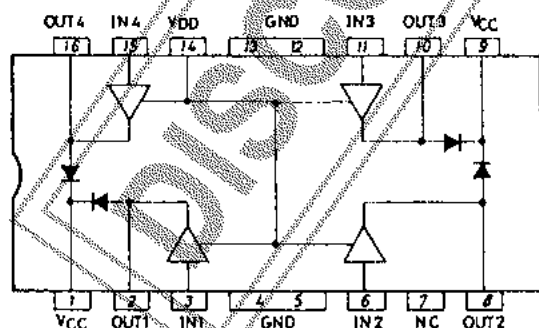
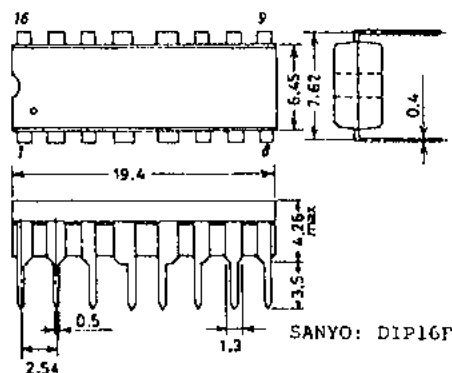
Allowable Operating Conditions at Ta=25°C

			unit
Supply Voltage	V_{DD}	3.5 to 7.0	V
Input "ON" Level Voltage	$V_{IN(ON)}$ $V_{IN} \geq GND, I_{OUT}=1.0A$	$V_{DD}-7.0$ to $V_{DD}-2.0$	V
Input "OFF" Level Voltage	$V_{IN(OFF)}$ $I_{OUT}=30\mu A$	$V_{DD}-0.3$ to V_{DD}	V

Electrical Characteristics at Ta=25°C, $V_{DD}=5.0V$

		min	typ	max	unit
Output Saturation Voltage	$V_{o(sat1)}$ $V_{IN}=V_{DD}-5.0V, I_o=0.5A$			1.2	V
	$V_{o(sat2)}$ " $I_o=1.0A$			1.5	V
	$V_{o(sat3)}$ " $I_o=1.5A$			2.0	V

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Pin Assignment(Note) V_{CC} (Pin 1 and 7) is shorted internally.**Case Outline 3054A-D16FIC
(unit:mm)**

Specifications and information herein are subject to change without notice.

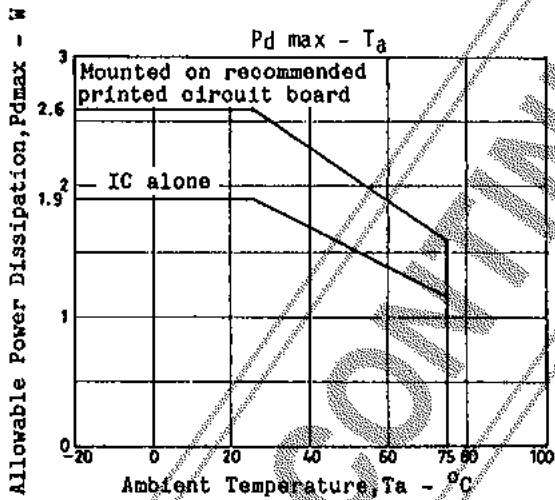
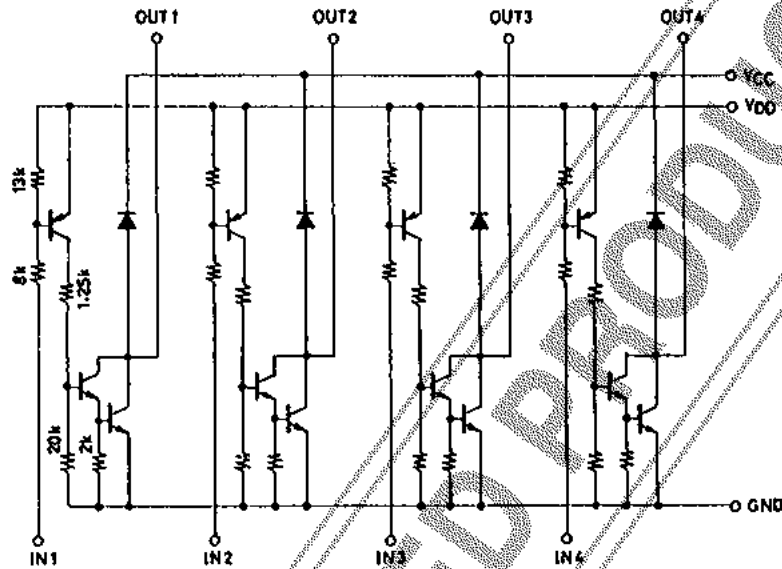
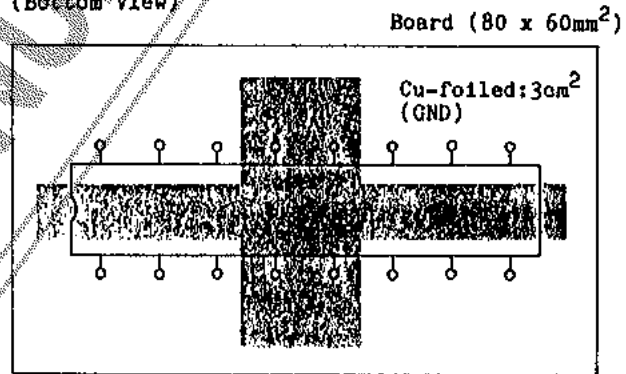
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			min	typ	max	unit
Output Sustain Voltage	$V_{O(sus)}$	$I_O=100mA$	65			V
Input Current	I_{IN}	$V_{DD}=7.0V, V_{IN}=V_{DD}-7.0V$			1.1	mA
Spark Killer Diode Forward Voltage	$V_{F(s)}$	$I_{FS}=1.5A$			3.0	V
Spark Killer Diode Reverse Current	$I_{R(s)}$	$V_{CC}=62V, V_O=0V$			30	uA

Equivalent Circuit

Recommended Printed Circuit Pattern
(Bottom View)

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