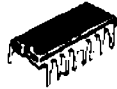


**SANYO**

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

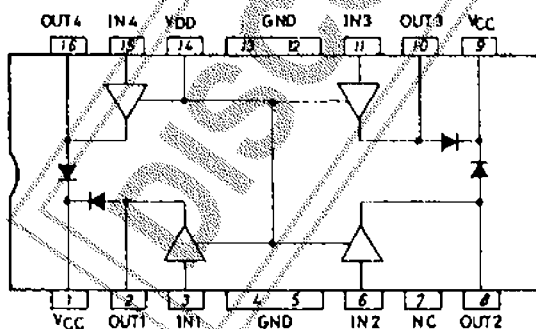
**Allowable Operating Conditions at Ta=25°C**

			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

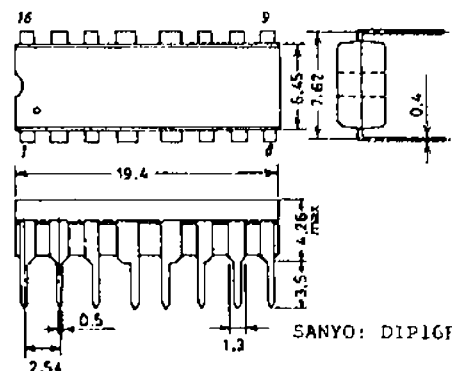
**Electrical Characteristics at Ta=25°C,  $V_{DD}=5.0V$** 

		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

Continued on next page.

**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.

**SANYO Electric Co., Ltd. Semiconductor Overseas Marketing Div.**  
15-13, 6 chome, Sotokanda, Chiyoda-ku, TOKYO 101 JAPAN

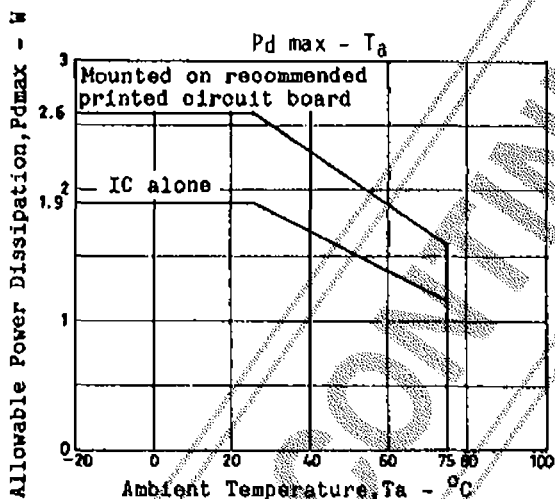
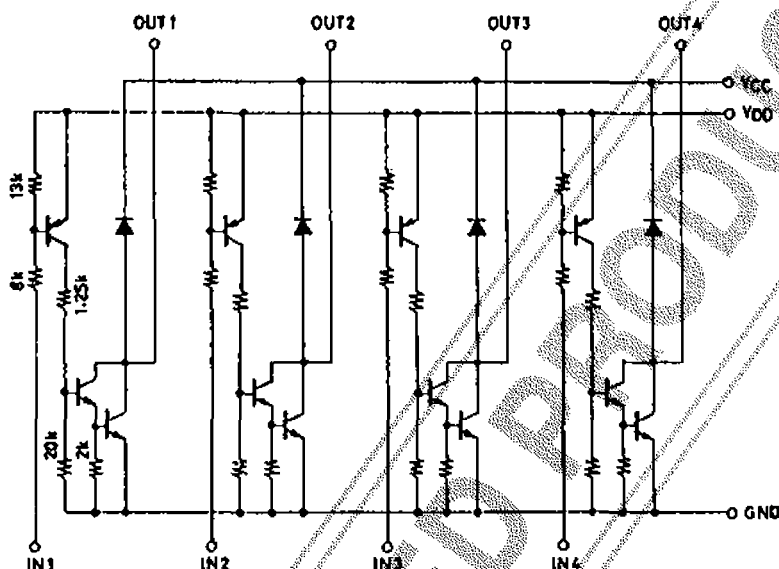
7097KI/6275KI, TS No.1904-1/2

LB1206

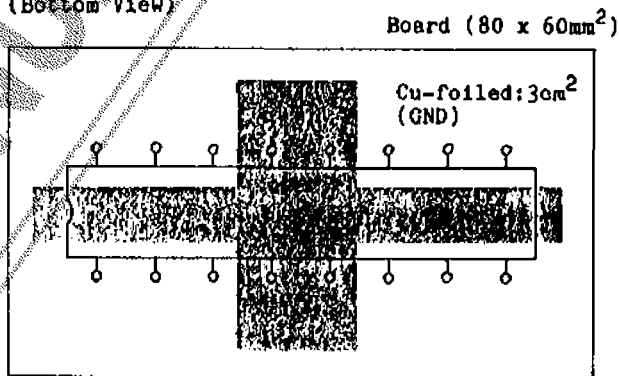
Continued from preceding page.

			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)



Information furnished by SANYO is believed to be accurate and reliable. However, no responsibility is assumed by SANYO for its use; nor for any infringements of patents or other rights of third parties which may result from its use, and no license is granted by implication or otherwise under any patent or patent rights of SANYO.