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_{DD}max		7.0	V
	V_{CC}max		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	Pdmax		1.9*	W
Operating Temperature	Topg		-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

				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	$V_{IN(OFF)}$	$I_{OUT} \leq$ 30uA	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, Io=0.5A			1.2	V
	$V_{o(sat2)}$	" , Io=1.0A			1.5	V
	$V_{o(sat3)}$	" , Io=1.5A			2.0	V

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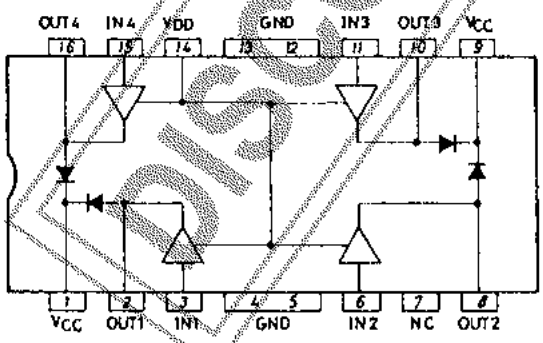
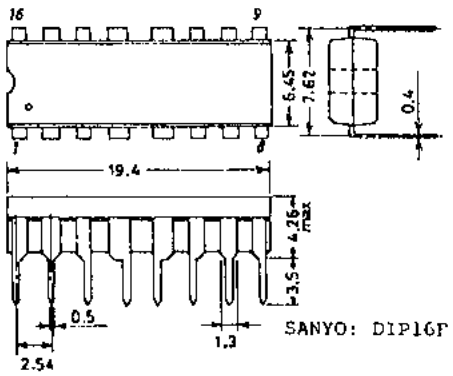
Pin Assignment



(Note) V_{CC} (Pin 1 and 7) is shorted internally.

Case Outline 3054A-D16FIC
(unit:mm)



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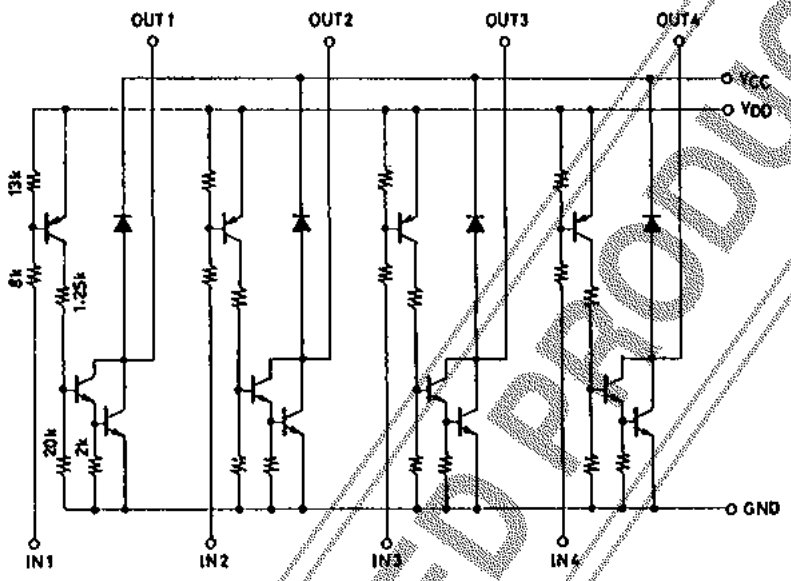
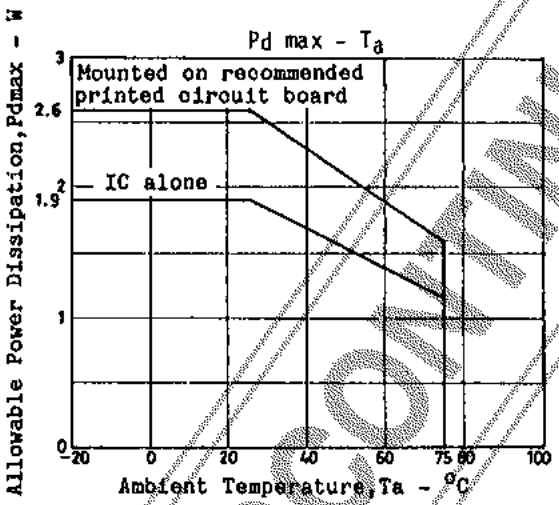
			min	typ	max	unit
Output Sustain Voltage	$V_{O(sus)}$	Io=100mA	65			V
Input Current	I_{IN}	V_{DD}=7.0V, V_{IN}=V_{DD}-7.0V			1.1	mA
Spark Killer Diode Forward Voltage	$V_{F(s)}$	I_{Fs}=1.5A			3.0	V
Spark Killer Diode Reverse Current	$I_{R(s)}$	V_{CC}=62V, Vo=0V			30	uA

Equivalent Circuit





Recommended Printed Circuit Pattern
(Bottom View)